

PART 70 OPERATING PERMIT FACT SHEET
W. L. GORE & ASSOCIATES, INC.
CHERRY HILL
2401 SINGERLY ROAD
ELKTON, MD 21921
PART 70 OPERATING PERMIT NO. 24-015-00079 Draft 2008

BACKGROUND

W. L. Gore & Associates, Inc. – Cherry Hill facility is located at 2401 Singerly Road in Cecil County, Maryland. W. L. Gore & Associates, Inc. is a worldwide manufacturing corporation with headquarters in Newark, Delaware. The Cherry Hill plant operations utilize Fluoropolymer material (FPM) forming and stretching equipment. The primary SIC for this facility is 3087.

The following table summarizes the actual emissions from W.L. Gore – Cherry Hill Plant based on its Emission Certification Report.

Table 1: Actual Emissions

Year	NO _x (TPY)	SO _x (TPY)	PM ₁₀ (TPY)	CO (TPY)	VOC (TPY)	HAPs
2006	8	4	0.5	1.3	12	0
2005	8	4	0	1	14	0
2004	7	3	0	1	16	0
2003	7	3	0	1	13	0

The major source threshold for triggering Title V permitting requirements in Cecil County is 25 tons per year for NO_x, 25 tons per year for VOCs, and 100 tons per year for any other criteria pollutants. The facility's potential to emit VOC emissions are greater than the major source threshold, therefore, W. L. Gore & Associates, Inc. – Cherry Hill Plant is required to obtain a Title V-Part 70 Operating Permit under COMAR 26.11.03.01.

The Department on May 31, 2002 received the Part 71 permit application for W. L. Gore & Associates, Inc. – Cherry Hill Plant. An administrative completeness review was conducted and the application was deemed to be administratively complete. A letter was sent to W.L. Gore – Cherry Hill Plant on July 16, 2002, granting an application shield. The Part 71 permit application will serve as a revised Part 70 permit application for the issuance of this Part 70 permit.

CAM Applicability

W.L. Gore & Associates, Inc.-Cherry Hill conducted a Compliance Assurance Monitoring (CAM) analysis for the facility and determined that certain Emission Units: EU3-1, EU3-2, EU3-3, EU3-4 is subject to the (CAM) Rule 40 CFR Subpart 64.

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EMISSION UNIT IDENTIFICATION

The Cherry Hill Plant has identified the following emission units as being subject to the Title V permitting requirements and having applicable requirements.

Table 2: Emission Unit Identification

Emissions Unit Number	MDE Registration Number	CH Number	Emissions Unit Description	Date of Installation
EU 1-1 Particulate Matter Emitting Units	6-0104	63203	Mixing and Compounding Area (Filled Products front end controlled by baghouse	05/2001 & 07/2002
		1931985	Mixing and Compounding Area – fugitive emissions.	08/2002
EU 2-1 Boilers	4-0223 & 4-0224		Two (2) Burnham No.2 fuel oil/propane fired boilers each rated at 9.45 million Btu per hour heat input and equipped with low NO _x burners. Boilers modified on February 8, 2008 to burn used oil and waste combustible fuels.	12/2006 Modified 2/8/08
	4-0156	5456	One Weil McLain No. 2 fuel oil boiler rated at 4.9 million Btu per hour heat input. (Boiler #1). Boiler modified on February 8, 2008 to burn used oil and waste combustible fuels	03/1985
	4-0200	2594	One Weil McLain No. 2 fuel oil boiler rated at 8.6 million Btu per hour heat input. (Boiler #3). Boiler modified on February 8, 2008 to burn used oil and waste combustible fuels	11/1997
EU2-2 Emergency Generator	9-0169		One (1) Onan 1200 bhp (800 kW) diesel emergency generator	12/2006
EU 3-1 Natural FPM Product Area vented through the oxidizer control system	6-0102	2203	R&D Wing (TD1) vented to the oxidizer control system and atmosphere.	01//1995
	6-0100	2208	Truck drying oven located in the FPM Area vented to an oxidizer control system and to the atmosphere.	09/1994
	7-0045	1045, 1314, 1632,* 2056, 1381	Five (5) Drum dryers located in the FPM Area vented to the oxidizer control system and to the atmosphere.	Pre 1990
	6-0275	1899969	Dryer-Med tenter.	08/2007
	6-0260	1316	One dryer vented to an oxidizer control system.	Pre-1990
EU 3-2 Filled FPM Products Area vented through the oxidizer	6-0126	2383	Oven (TD2) located in the filled area vented to the oxidizer control system and to the atmosphere.	06/1996
	6-0276	2404	Oven (TD3) located in the FPM area vented to the oxidizer control system and to the atmosphere.	07/1997

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Emissions Unit Number	MDE Registration Number	CH Number	Emissions Unit Description	Date of Installation
control system	6-0131	2204	Oven (GT7) located in the R&D area vented to the oxidizer control system and to the atmosphere.	09/1996
	6-0279	2615	R&D oven vented to an oxidizer control system.	05/1999
EU 3-3 FPM Processing Area vented to atmosphere	6-0073	2573	One (1) drying oven in FP and vented to the atmosphere.	01/1999
	6-0130	0685, 2281, 2260, 2505	Four (4) electric ovens: Three (3) located in the Resin area Lab; and one in the Gen Lab, all vented to the atmosphere.	08/1982, 07/1996 & 09/1999
	6-0041	2365 & 2366	Two (2) R&D ovens located in the Filled Product area vented to the atmosphere.	07/1992 & 10/2003
EU 3-4 Ovens vented to Oxidizer control system	6-0173 M	60564	One (1) batch-drying oven vented to the oxidizer control system to control VOC emissions and vented to the atmosphere.	12/1999
		2439 & 2440	Two (2) batch-drying ovens vented to the oxidizer control system to control VOC emissions and vented to the atmosphere.	03/1999
		2597 & 2598	Two (2) batch-drying ovens vented to the oxidizer control system to control VOC emissions and vented to the atmosphere.	02/2000
		2369, 60535, 62581	Oxidizer Control System consisting of Willie, Sara & Tec.	06/1996; 03/1999; 01/2002
	6-0278	60648	One Rover dryer vented to the oxidizer control system and vented to the atmosphere.	01/1999
	6-0192	62177	One (1) batch-drying oven vented to the oxidizer control system to control VOC emissions and vented to the atmosphere.	04/2002
EU 3-5		PM5084	Cold Maintenance Degreaser (30.5 gallon capacity). See Insignificant Activity List	

AN OVERVIEW OF THE PART 70 PERMIT

Section I of the Part 70 Permit contains a brief description of the facility and an inventory list of the emissions units for which applicable requirements are identified in Section IV of the permit.

Section II of the Part 70 Permit contains the general requirements that relate to administrative permit actions. This section includes the procedures for renewing, amending, reopening, and transferring permits, the relationship to permits to construct and approvals, and the general duty to provide information and to comply with all applicable requirements.

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Section III of the Part 70 Permit contains the general requirements for testing, record keeping and reporting; and requirements that affect the facility as a whole, such as open burning, air pollution episodes, particulate matter from construction and demolition activities, asbestos provisions, ozone depleting substance provisions, general conformity, and acid rain permit. This section includes the requirement to report excess emissions and deviations, to submit an annual emissions certification report and an annual compliance certification report, and results of sampling and testing.

Section IV of the Part 70 Permit identifies the emissions standards, emissions limitations, operational limitations, and work practices applicable to each emissions unit located at the facility. For each standard, limitation, and work practice, the permit identifies the basis upon which the Permittee will demonstrate compliance. The basis will include testing, monitoring, record keeping, and reporting requirements. The demonstration may include one or more of these methods.

Section V of the Part 70 Permit contains a list of insignificant activities. These activities emit very small quantities of regulated air pollutants and do not require a permit to construct or registration with the Department. For insignificant activities that are subject to a requirement under the Clean Air Act, the requirement is listed under the activity.

Section VI of the Part 70 Permit contains State-only enforceable requirements. Upon issuance of the Part 70 Permit, the Part 70 Permit supercedes the facility's current State Permit to Operate. Section VI identifies requirements that are not based on the Clean Air Act, but solely on Maryland air pollution regulations. These requirements generally relate to the prevention of nuisances and implementation of Maryland's Air Toxics Program.

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REGULATORY REVIEW/TECHNICAL REVIEW/COMPLIANCE METHODOLOGY

Emission Units: EU 1-1

Particulate Matter Emitting Units (6-0104 M)

Mixing and Compounding Area - Filled Products front end controlled by baghouse.

Mixing and Compounding Area – Fugitive emissions

Note: These installations are minor sources of particulate matter. The emission certification for 2006 reported 0.136tons of PM.

Applicable Standards and limits:

A. Control of Visible Emissions

COMAR 26.11.06.02C(1) – Visible Emission Standards. “A person may not cause or permit the discharge of emissions from any installation or building, other than water in an uncombined form, which is greater than 20 percent opacity.”

COMAR 26.11.06.02A(2) – General Exception. “The visible emissions standards in §C of this regulation do not apply to emissions during start-up and process modifications or adjustments, or occasional cleaning of control equipment, if:

(a) The visible emissions are not greater than 40 percent opacity; and

(b) The visible emissions do not occur for more than 6 consecutive minutes in any 60 minute period.”

Compliance demonstration:

The Permittee shall conduct a monthly 6-minute visual observation of the baghouse exhaust. The visual observation must be conducted while the baghouse is in operation. If no visible emissions are observed in six consecutive monthly observations from the baghouse exhaust, the Permittee may decrease the frequency of visual observations from monthly to quarterly for the baghouse exhaust. If visible emissions are observed during any quarter visual observation, the Permittee must resume the observation of the baghouse exhaust on a monthly basis and maintain that schedule until no visible emissions are observed in six consecutive monthly visual observations. If visible emissions are observed during any observation, the Permittee must conduct an 18-minute test of opacity in accordance with Method 9. The Method 9 test must begin within 24-hours of any observation of visible emissions. The Permittee shall maintain on site a log of the dates and results of visible emissions observations for a period of at least 5 years. The Permittee shall report incidents of visible emissions in accordance with permit condition 4, Section III, Plant Wide Conditions, “Report of Excess Emissions and Deviations”. **[Reference: COMAR 26.11.03.06C]**

B. Control of Particulate Matter Emissions

COMAR 26.11.06.03B(1) – Particulate Matter from Confined Sources. “A person may not cause or permit particulate matter to be discharged from any installation constructed on or after January 17, 1972 in excess of 0.05 gr/scfd (115 kg/dscm).”

Compliance demonstration:

The Permittee shall develop and maintain a preventive maintenance plan for the baghouse that describes the maintenance activity and time schedule for completing each activity. The Permittee shall perform maintenance activities within the time frames established in the plan and shall maintain a log with records of the dates and description of the maintenance that was performed. The Permittee shall maintain a copy of the preventive maintenance plan and a record of the dates of and description of maintenance activity performed. The Permittee shall maintain records of the baghouse malfunctions and the corrective actions taken to bring into proper operation. The Permittee shall submit a copy of the preventive maintenance plan,

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records of maintenance activities and corrective actions taken upon request. [Reference: COMAR 26.11.03.06C].

Emission Units: EU 2-1

Boilers

Two (2) Burnham No.2 fuel oil/propane fired boilers each rated at 9.45 million Btu per hour heat input and equipped with low NO_x burners. (Boilers #4 & #5) [4-0223 & 4-0224]

One (1) Weil McLain No. 2 fuel oil boiler rated at 4.9 million Btu per hour heat input. (Boiler #1) [4-0156]

One (1) Weil McLain No. 2 fuel oil boiler rated at 8.6 million Btu per hour heat input. (Boiler #3) [4-0200]

The Permittee applied and was issued a modification to the boilers on February 8, 2008 to burn used oil and waste combustible fuels.

The following boilers were removed since the issuance of the initial part 70 operating permit:
Two (2) boilers: one (1) 2.9 million Btu per hour heat input (CH5457, PTC#4-0178) removed in 2007 and one (1) 1.2 million Btu per hour heat input (CH5455, PTC#4-0152) removed in 2005.

Note: For Control of Particulate Matter: "The requirements in Figure 1 and 2 of this chapter do not apply to fuel burning equipment burning gas or distillate oil." [Reference: COMAR 26.11.09.06A(3)(c)]

Applicable Standards and limits:

A. Control of Visible Emissions

COMAR 26.11.09.05A(1) - Fuel Burning Equipment. "A person may not cause or permit the discharge of emissions from any fuel burning equipment, other than water in an uncombined form, which is greater than 20 percent opacity."

COMAR 26.11.09.05A(3) - Exceptions. "Section A(1) and (2) of this regulation do not apply to emissions during load changing, soot blowing, startup, or adjustments or occasional cleaning of control equipment if:

- (a) The visible emissions are not greater than 40 percent opacity; and
- (b) The visible emissions do not occur for more than 6 consecutive minutes in any sixty minute period."

Compliance demonstration: - The Permittee shall properly operate and maintain the boilers in a manner to prevent visible emissions. The Permittee shall maintain an operations manual and preventive maintenance plan, and a log of maintenance performed that relates to combustion performance. The Permittee shall report incidents of visible emissions in accordance with permit condition 4 of Section III, Plant Wide Conditions, "Report of Excess Emissions and Deviations". The basis for these monitoring, record keeping, and reporting requirements is the Department's authority to create periodic monitoring requirements. [Reference: COMAR 26.11.03.06C].

Rationale for Periodic Monitoring - Boilers that burn No.2 fuel oil with a rated heat input capacity of less than 10 MM Btu/hr typically never have visible emissions if properly operated and maintained. Boilers in this size range are set up to operate in an automatic mode without oversight of an operator. The completion of annual preventative maintenance as recommended by the boiler manufacturer, focusing on combustion performance, is sufficient to maintain compliance with the no visible emissions requirement. Even though there is not a specific schedule to perform observations of the stack emissions, the Permittee is required

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under the general reporting requirement for excess emissions and deviations to report incidents when visible emissions exceed 20 percent opacity.

B. Control of Sulfur oxides Emissions.

COMAR 26.11.09.07A(1)(c). Sulfur Content Limitations for Fuel. "A person may not burn, sell, or make available for sale any fuel with a sulfur content by weight in excess of or which otherwise exceeds the following limitations: Distillate fuel oils, 0.3 percent."

Compliance demonstration: The Permittee shall obtain a certification from the fuel supplier with each shipment indicating that the oil complies with the limitation on the sulfur content of fuel oil. The Permittee shall retain fuel supplier certifications of sulfur content in fuel. The Permittee shall report fuel supplier certifications of sulfur content in fuel to the Department upon request. The basis for these monitoring, records keeping, and reporting requirements is the Department's authority to create periodic monitoring requirements. **[Reference COMAR 26.11.03.06C].**

Rationale: The strategy for the compliance demonstration is based on the compliance demonstration for NSPS Subpart Dc boilers that burn fuel oil.

C. Operational Limits:

The boilers shall burn No. 2 fuel oil, used oil or waste combustible fluids only. **[Reference: MDE Permit to Construct Nos. 015-0079-4-0223 & 4-0224, 4-0156, & 4-0200 Part C(2) issued February 8, 2008]**

Compliance Demonstration: The Permittee is required to maintain records of the types and quantity of fuel burned to support the annual emissions certification report (permit condition 8 of Section III, Plant Wide Conditions "Emissions Certification Report"). The annual certification report must contain the type, quantities, and analyses of all fuels burned. No additional requirements are needed to show compliance with this operational limitation.

Emission Units: EU2-2

Emergency Generator

One (1) Onan 1200 bhp (800 kW) diesel emergency generator. [9-0169]

Applicable Standards and limits:

A. Control of Visible Emissions

COMAR 26.11.09.05B - Stationary Internal Combustion Engine Powered Equipment

"(2) Emissions During Idle Mode. A person may not cause or permit the discharge of emissions from any engine, operating at idle, greater than 10 percent opacity.

(3) Emissions During Operating Mode. A person may not cause or permit the discharge of emissions from any engine, operating at other than idle conditions, greater than 40 percent opacity.

(4) Exceptions.

(a) Section B(2) does not apply for a period of 2 consecutive minutes after a period of idling of 15 consecutive minutes for the purpose of clearing the exhaust system.

(b) Section B(2) does not apply to emissions resulting directly from cold engine start-up and warm-up for the following maximum periods:

(i) Engines that are idled continuously when not in service: 30 minutes;

(ii) All other engines: 15 minutes.

(c) Section B(2) and (3) does not apply while maintenance, repair, or testing is being performed by qualified mechanics."

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Compliance Demonstration:

The Permittee shall properly operate and maintain the emergency generator in a manner to prevent visible emissions. The Permittee shall maintain an operations manual and preventive maintenance plan. The Permittee shall maintain a log of maintenance performed that relates to combustion performance. [Reference: COMAR 26.11.03.06C] The Permittee shall report incidents of visible emissions in accordance with permit condition 4, Section III, Plant Wide Conditions, "Report of Excess Emissions and Deviations"

B. Control of Sulfur Oxides Emissions

COMAR 26.11.09.07A(1)(c). Sulfur Content Limitations for Fuel. "A person may not burn, sell, or make available for sale any fuel with a sulfur content by weight in excess of or which otherwise exceeds the following limitations: Distillate fuel oils, 0.3 percent."

Compliance Demonstration:

The Permittee shall obtain a certification from the fuel supplier with every shipment indicating that the oil complies with the limitation on the sulfur content of fuel oil. [Reference: COMAR 26.11.03.06C]. The Permittee shall retain fuel supplier certifications stating that the fuel oil is in compliance with this regulation. The Permittee shall report fuel supplier certifications to the Department upon request. [Reference: COMAR 26.11.09.07C].

Operational Limit

The emergency diesel generator shall be used for emergency use only and shall not operate more than 500 hours a year, unless the Permittee obtains prior written approval from the Department. [Reference; Permit to construct 9-0169, Part D(2)

Compliance Demonstration:

The Permittee shall maintain a log for the emergency generator indicating the amounts of fuel oil combusted, the hours of operation, and reason for generator operation (i.e. maintenance or operational testing, power outage, etc.) [Reference: Permit to construct 9-0169, Part E(1)]. The Permittee shall maintain logs on site for at least five (5) years and make available to the Department upon request. [Reference; Permit to construct 9-0169, Part E(2)] The Permittee shall submit a record of the logs with the annual emissions certification report. See permit condition 8 of Section III.

Emission Units: EU 3-1, EU 3-2, EU 3-3 & EU 3-4

EU 3-1 - Natural FPM Product Area vented through the oxidizer control system
EU3-2 - Filled FPM Products Area vented through the oxidizer control system.
EU3-3 - FPM Processing Area vented to atmosphere.
EU3-4 - Ovens vented to Oxidizer control system.

Please Note: The oxidizer control system (OCS) includes the following oxidizers: SARA (oxidizer #1), T-Ox (oxidizer #2) and WILLIE (oxidizer #3).

The facility-conducted performance testing on the oxidizers as follow:

T-Ox (installed 6/1996) - July 1998 which resulted in 99.10 percent VOC destruction and removal efficiency;

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WILLIE (installed 3/1999) – February 2002 which resulted in a VOC destruction and removal efficiency of 98 percent. Again in March 2007 which resulted in a VOC destruction and removal efficiency of 99.2 percent.

SARA (installed 1/2002) – August 12 & 13, 2002 which resulted in a VOC destruction efficiency of 99.19 percent.

The OCS operates in a lead-lag fashion. Willie acts as the lead oxidizer and handles most of the load, most of the time, with SARA in standby mode and Tec standby/shutdown mode (off-line and cool). As Willie approaches maximum capacity, SARA begins to ramp up to the set point combustion temperature. Tec is used during emergency situations, and as backup when maintenance is required on Willie or SARA, and for additional control as needed.

The following permits to construct were updated/modified to reflect that the Oxidizer Control System (OCS) controls the emissions from the process unit not one specific thermal oxidizer or re-registered to reflect the addition of the OCS for emission control since the issuance of the Title V permit: CJS-Truck dryer (CH#2208, **PTC #6-0100**); Dryer TD1 (CH#2203, **PTC #6-0102**); TD2 (CH#2383, **PTC #6-0126**); the Dryer-GT7 (CH#2204, **PTC #6-0131**); Five FP dryers (CH#2439, CH#2440, CH#2597, CH#2598, CH#60564, **PTC #6-0173**); FP Rapid Proto R&D oven (CH#62177, **PTC #6-0192**); Five Drum dryers (CH#1045, CH#1314, CH#1381, CH#1632, CH#2056, **PTC #7-0045**); TD3 dryer (CH#2404, **PTC #6-0276**); Rover (CH#60648, **PTC #6-0278**); Dryer (CH#1316, **PTC#6-0260**); R&D Oven (CH#2615, **PTC#6-0279**).

The following processes were removed: Tape treatment and drying oven CH#2642 – removed 2002; Three powder-drying ovens in the solvent tape drying area CH#61253, CH#61274, CH#61275 – removed in 2003; Three IHEI powder-drying ovens CH#61744, CH#61745, CH#61746 – removed in 2005.

Applicable Standards and limits:

A. Control of Visible Emissions.

COMAR 26.11.06.02C(1) – Visible Emission Standards. “A person may not cause or permit the discharge of emissions from any installation or building, other than water in an uncombined form, which is greater than 20 percent opacity.”

COMAR 26.11.06.02A(2) – General Exception. “The visible emissions standards in §C of this regulation do not apply to emissions during start-up and process modifications or adjustments, or occasional cleaning of control equipment, if:

- (a) The visible emissions are not greater than 40 percent opacity; and
- (b) The visible emissions do not occur for more than 6 consecutive minutes in any 60 minute period.”

Compliance Demonstration:

The Permittee shall visually inspect the exhaust of the oxidizer control system at least monthly for a 6-minute period when the process lines are in operation and shall record the results of each observation. If no visible emissions are observed in six consecutive monthly observations, the frequency of visual observation may decrease from monthly to quarterly. If emissions are visible greater than 20 percent opacity from oxidizers, the Permittee shall perform the following unless it can be shown, through a Method 9 test, that the visible emissions are zero percent opacity:

- (a) inspect all process and/or control equipment related to emission point;
- (b) perform all necessary repairs and/or adjustments to the oxidizers, within 48 hours, so that visible emissions in the exhaust gases are less than 20 percent opacity; and
- (c) document, in writing, the results of the inspections and the repairs and/or adjustments made to the oxidizers.

If visible emissions greater than 20 percent opacity has not been eliminated within 48 hours, the Permittee shall perform a Method 9 observation once daily when the process lines are in

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operation until the visible emissions have been reduced to less than 20 percent opacity. The Permittee shall keep records of the results of visual emission observations and document any incidence of visible emissions and corrective action taken by the Permittee. The Permittee shall report incidents of visible emissions in accordance with Permit Condition 4, Section III, "Reports of Excess Emissions and Deviations" [Reference: **COMAR 26.11.03.06C**]

B. Control of VOC Emissions

COMAR 26.11.19.30E – General Requirements for FPM Process Installations.

"(1) A person who owns or operates an FPM process installation that has actual uncontrolled VOC emissions of 50 pounds or more per day shall vent the emissions into a thermal oxidizer system or other control method approved by the Department to destroy or reduce VOC emissions by 85 percent or more, overall.

(2) If a thermal oxidizer is installed, the oxidizer combustion chamber shall be:

(a) Operated at a minimum combustion chamber temperature of 1400°F or other temperature approved by the Department that is demonstrated to achieve compliance with this regulation;

(b) Equipped with a continuous temperature monitor to record the oxidizer temperature; and

(c) Equipped with an alarm system that alerts the operator when the oxidizer combustion chamber temperature is less than the approved temperature; and

(d) Equipped with an interlock system that prevents operation of the FPM installation unless the approved control system is operating.

(3) If a source uses an alternative control method approved by the Department, the alternative control method shall be monitored as required by the Department.

(4) Equipment that is installed for the purpose of treating emissions or monitoring shall be operated, maintained, and as applicable, calibrated in accordance with the equipment vendor's specifications.

(5) A person who owns or operates an FPM compounding and tape or shape-forming installation shall minimize fugitive emissions of VOC by:

(a) Immediately enclosing all wet FPM during storage; and

(b) Covering dipping troughs when not in operation.

(6) A person who owns or operates an FPM coating installation that has actual uncontrolled VOC emissions of 20 pounds or more per day may not use a coating that has a VOC content exceeding 2.9 pounds per gallon unless the installation is equipped with a control device that meets the requirements in §E(2), (3), and (4) of this regulation."

Compliance Demonstration:

COMAR 26.11.19.30 F - Demonstration of Compliance: Compliance with this regulation shall be demonstrated using the applicable VOC test methods specified in COMAR 26.11.01.04C or other test method approved by the Department.

The Permittee shall conduct performance testing of the primary oxidizer in the control system once during the 5-year term of the permit. The Permittee shall submit a test protocol to the Department for approval at least 30 days prior to proposed date of the test. The Permittee shall report results of the performance testing to the Department within 45 days after completion of the test. . [Reference: **COMAR 26.11.03.06C**].

The Permittee shall perform checks semi-annually on the thermocouples that monitor the temperatures to the oxidizer control system for accuracy. The Permittee shall keep records of the semi-annual checks of the thermocouples. The Permittee shall make the records of the thermo couple checks made available to the Department upon request [Reference: **COMAR 26.11.03.06C**].

For the oxidizer control system, the combustion chamber shall be:

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- (a) Operated at a minimum combustion chamber temperature of 1400 °F or other temperature approved by the Department that is demonstrated to achieve compliance with this regulation;
- (b) Equipped with a continuous temperature monitor to record the oxidizer temperature; and
- (c) Equipped with an alarm system that alerts the operator when the oxidizer combustion chamber temperature is less than the approved temperature; and
- (d) Equipped with an interlock system that prevents operation of the FPM installation unless the approved control system is operating.” [Reference: COMAR 26.11.19.30E(2)].

The Permittee shall demonstrate compliance with the interlock alarm system by continuously recording the damper position and the corresponding chamber temperature of the oxidizer control system.

The following records shall be kept on site for a period of at least five (5) years except for the design data, which shall be retained permanently. The records shall be made available to the Department on request:

- (1) Permanent records for the life of the equipment of pertinent design data for the control device including manufacturer specifications and/or vendor guarantees for the control device and catalyst, catalyst requirements, design space velocity, operating limits, volume and configuration of catalyst required;
- (2) Maintenance records of types and dates of work performed on the oxidizer control system;
- (3) Records of the combustion chamber temperature, which shall be greater than 1400 °F any time a controlled process line is in operation; and
- (4) Records of the results of destruction efficiency tests.

[Reference: COMAR 26.11.19.30E(2)].

See CAM Plan (40 CFR Part 64) – Compliance Assurance Monitoring) for additional monitoring requirements.

Emission Units: Facility-Wide

Applicable Standards and limits:

Control of VOC Emissions

- A. COMAR 26.11.19.02I – Good Operating Practices, Equipment Cleanup and VOC Storage
- “(1) Applicability. The requirements in this section apply to a person who owns or operates an installation that is subject to any requirement in this chapter.
- (2) Good Operating Practices.
- (a) A person who is subject to this section shall implement good operating practices to minimize VOC emissions into the atmosphere.
 - (b) Good operating practices shall, at a minimum, include the following:
 - (i) Provisions for training of operators on practices, procedures, and maintenance requirements that are consistent with the equipment manufacturers' recommendations and the source's experience in operating the equipment, with the training to include proper procedures for maintenance of air pollution control equipment;
 - (ii) Maintenance of covers on containers and other vessels that contain VOC and VOC-containing materials when not in use;
 - (iii) As practical, scheduling of operations to minimize color or material changes when applying VOC coatings or other materials by spray gun;
 - (iv) For spray gun applications of coatings, use of high volume low pressure (HVLP) or other high efficiency application methods where practical; and
 - (v) As practical, mixing or blending materials containing VOC in closed containers and taking preventive measures to minimize emissions for products that contain VOC.
 - (c) A person subject to this regulation shall:
 - (i) Establish good operating practices in writing;

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- (ii) Make the written operating practices available to the Department upon request; and
- (iii) Display the good operating practices so that they are clearly visible to the operator or include them in operator training.

(3) Equipment Cleanup.

- (a) A person subject to this section shall take all reasonable precautions to prevent or minimize the discharge of VOC into the atmosphere when cleaning process and coating application equipment, including containers, vessels, tanks, lines, and pumps.
- (b) Reasonable precautions for equipment cleanup shall, at a minimum, include the following:
 - (i) Storing all wastes and waste materials, including cloth and paper that are contaminated with VOC, in closed containers;
 - (ii) Preparing written standard operating procedures for frequently cleaned equipment, including when practical, provisions for the use of low-VOC or non-VOC materials and procedures to minimize the quantity of VOC materials used;
 - (iii) Using enclosed spray gun cleaning, VOC-recycling systems and other spray gun cleaning methods where practical that reduce or eliminate VOC emissions; and
 - (iv) Using, when practical, detergents, high-pressure water, or other non-VOC cleaning options to clean coating lines, containers, and process equipment.

(4) VOC Storage and Transfer.

- (a) A person subject to this section who stores VOCs shall, at a minimum, install conservation vents or other vapor control measures on storage tanks with a capacity of 2,000 gallons or more, to minimize VOC emissions.
- (b) A person subject to this section shall, at a minimum, utilize vapor balance, vapor control lines, or other vapor control measures when VOCs are transferred from a tank truck into a stationary storage tank with a capacity greater than 10,000 gallons and less than 40,000 gallons that store VOCs or materials containing VOCs, other than gasoline, that have a vapor pressure greater than 1.5 psia."

Compliance Demonstration

The Permittee shall conduct facility-wide inspections at least once per calendar month to determine the compliance status of facility operations with regard to implementation of "good operating practices" designed to minimize emissions of VOC. **[Reference: COMAR**

26.11.03.06C]. The Permittee shall maintain:

- 1) Written descriptions of all "good operating practices" designed to minimize emissions of VOC from facility-wide operations. **[Reference: COMAR 26.11.19.02I]**
- 2) Records of all inspections conducted to determine the facility's compliance status with regard to implementation of "good operating practices" designed to minimize emissions of VOC from facility-wide operations. The records shall include for each inspection the name of the inspector, the date and time of the inspection, and an account of the findings. **[Reference: COMAR 26.11.03.06C]**.

Good operating practices information as required by COMAR 26.11.19.02I shall be made available to the Department upon request

B. COMAR 26.11.19.16C - Control of VOC Leaks

General Requirements. "A person subject to this regulation shall comply with all of the following requirements:

- (1) Visually inspect all components on the premises for leaks at least once each calendar month.
- (2) Tag any leak immediately so that the tag is clearly visible. The tag shall be made of a material that will withstand any weather or corrosive conditions to which it may be normally exposed. The tag shall bear an identification number, the date the leak was discovered, and the name of the person who discovered the leak. The tag shall remain in place until the leak has been repaired.

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- (3) Take immediate action to repair all observed VOC leaks that can be repaired within 48 hours.
- (4) Repair all other leaking components not later than 15 days after the leak is discovered. If a replacement part is needed, the part shall be ordered within 3 days after discovery of the leak, and the leak shall be repaired within 48 hours after receiving the part.
- (5) Maintain a supply of components or component parts that are recognized by the source to wear or corrode, or that otherwise need to be routinely replaced, such as seals, gaskets, packing, and pipe fittings.
- (6) Maintain a log that includes the name of the person conducting the inspection and the date on which leak inspections are made, the findings of the inspection, and a list of leaks by tag identification number. The log shall be made available to the Department upon request. Leak records shall be maintained for a period of not less than 2 years from the date of their occurrence."
- COMAR 26.11.19.16D. Exceptions. "Components that cannot be repaired as required in this regulation because they are inaccessible, or that cannot be repaired during operation of the source, shall be identified in the log and included within the source's maintenance schedule for repair during the next source shutdown."

Compliance Demonstration

The Permittee shall:

- (1) Visually inspect all components (process equipment, storage tanks, pumps, compressors, valves, flanges, pipeline fittings, pressure relief valves) at the facility for leaks at least once each calendar month;
- (2) Tag any leak immediately with I.D. Number, the date VOC leak was discovered, and the name of the person who discovered the leak. The tag is to remain in place until the VOC leak is repaired;
- (3) Take immediate action to repair/control all observed VOC leaks that can be repaired within 48 hours;
- (4) Repair all other leaking components not later than 15 days after the VOC leak is discovered in accordance with COMAR 26.11.19.16C(4);
- (5) If a replacement part is needed, it shall be ordered within 3 days after discovery of the leak and the VOC leak shall be repaired within 48 hours after receiving the part;
- (6) Maintain a supply of components or component parts that are recognized by the source to wear or corrode, or that otherwise need to be routinely replaced; and
- (7) Identify in a log components that cannot be repaired as required by this regulation because they are inaccessible, or that cannot be repaired during operation of the source, and include them within the source's maintenance schedule for repair during the next source shutdown.

[Reference: COMAR 26.11.19.16C and D]

The Permittee shall:

- (1) Maintain a log that includes the name of the person conducting the inspection, the date on which VOC leak inspection was made, the findings of the inspection, a list of VOC leaks by tag identification number, the date the part was ordered, and the date the VOC leak was repaired; and
- (2) Make the log available to the Department upon request and shall be maintained for a period of not less than two years from the date of the leaks' occurrence.

[Reference: COMAR 26.11.19.16C(6)]

VOC Leak inspection logs as required by COMAR 26.11.19.16 shall be made available to the Department upon request.

Compliance Assurance Monitoring (CAM) Requirements [40 CFR Part 64] – Table 6 in Section IV of the Part 70 Permit.

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CAM is intended to provide a reasonable assurance of compliance with applicable requirements under the Clean Air Act for large emission units that rely on air pollution control (APC) equipment to achieve compliance. The CAM approach established monitoring for the purpose of:

- (1) Documenting continued operation of the control measures within ranges of specified indicators of performances (such as emissions, control device parameters, and process parameters) that are designed to provide a reasonable assurance of compliance with applicable requirements;
- (2) Indicating any excursions from these ranges; and
- (3) Responding to the data so that the causes of or caused excursions are corrected.

In order for a unit to be subject to CAM, the unit must be located at a major source, be subject to an emission limitation or standard; use a control device to achieve compliance; have pre-control emissions of at least 100 percent of the major source amount; and must not otherwise be exempt from CAM. Applicability determinations are made on a pollutant-by-pollutant basis for each emission unit.

The Pollutant specific emission units (PSEU) consist of dryers and ovens that support the FPM shaping and forming processes. The dryers and ovens are controlled by the Oxidizer Control System (OCS), which consist of three regenerative thermal oxidizers (RTO).

The dryers and ovens are used to drive off liquid VOC and/or water from the FPM materials or add certain properties to the product. The dryers and ovens are ducted to the OCS and operate, as a batch process and an as needed basis depending on production demands. All the dryers and ovens are interlocked with the OCS so that they can only operate when the OCS is at temperatures greater than 1400 °F. If temperatures approach 1400 °F, the alarm system will alert operators of low temperatures and if the low temperature is not corrected the OCS will go offline and production equipment will automatically be shutdown.

Rationale for selection of Performance Indicators

The OCS is used to reduce the VOC emissions generated from the evolution of VOCs from FPM materials. Production is considered batch process, so that production rate varies. Therefore it is difficult to relate the production rate of the VOC load vented to the OCS.

“VOC destruction efficiency depends upon design criteria (i.e. chamber temperature, residence time, inlet VOC concentration, compound type, and degree of mixing). Thermal destruction of most organic compounds occurs between 590 °C and 650 °C (1100 °F and 1200 °F).”

RTOs utilize the opening and closing of dampers to routinely change the direction of airflow over the beds. This change of airflow direction helps improve mixing of the gases and maintains uniform temperature across the beds. Incomplete combustion in the RTO may be indicated by visible emissions from the stack.

In accordance with 40 CFR 64.4(b)(1) - Presumptively acceptable monitoring includes:

“Presumptively acceptable or required monitoring approaches, established by the permitting authority in a rule that constitutes part of the applicable implementation plan required pursuant to Title I of the Act, that are designed to achieve compliance with this part for particular pollutant-specific emissions units.” COMAR 26.11.19 achieves the requirements of Title I of the Clean Air Act, Section 110. State Implementation Plan (SIP) for VOC and requirement for this source is listed in COMAR 26.11.19.30E.

Rationale for selection of Indicator Ranges

Indicator ranges are based on requirements of the Maryland regulation and are supported by the stack testing data. VOC destruction of most organic compounds occurs between 1100 °F and 1200 °F. The minimum combustion zone temperature of these units is 1400 °F. Alarms are

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sounded of the OCS substantially deviates from the set point of 1400 °F. Test methods used to determine VOC destruction efficiency includes EPA Test Method 25A.

See Table 6 for Monitoring Approach.

COMPLIANCE SCHEDULE

W. L. Gore & Associates, Inc – Cherry Hill Plant is currently in compliance with all applicable air quality regulations.

TITLE IV – ACID RAIN

W. L. Gore & Associates, Inc – Cherry Hill Plant is not subject to the Acid Rain Program requirements.

TITLE VI – OZONE DEPLETING SUBSTANCES

W. L. Gore & Associates, Inc – Cherry Hill Plant is subject to Title VI requirements.

SECTION 112(r) – ACCIDENTAL RELEASES

W. L. Gore & Associates, Inc – Cherry Hill Plant is not subject to the requirements of Section 112(r).

PERMIT SHIELD

W. L. Gore & Associates, Inc – Cherry Hill Plant did request a permit shield.

INSIGNIFICANT ACTIVITIES

This section provides a list of insignificant emissions units that were reported in the Title V permit application. The applicable Clean Air Act requirements, if any, are listed below the insignificant activity.

- (1) No. 12 Fuel burning equipment using gaseous fuels or no. 1 or no. 2 fuel oil, and having a heat input less than 1,000,000 Btu (1.06 gigajoules) per hour;

[For Areas I, II, V, and VI]

The *fuel burning units* are subject to the following requirements: COMAR 26.11.09.05A(1), which establishes that the Permittee may not cause or permit the discharge of emissions from any fuel burning equipment, other than water in an uncombined form, which is greater than 20 percent opacity.

Exceptions: COMAR 26.11.09.05A(2) does not apply to emissions during load changing, soot blowing, start-up, or adjustments or occasional cleaning of control equipment if:

- (a) The visible emissions are not greater than 40 percent opacity; and
- (b) The visible emissions do not occur for more than 6 consecutive minutes in any sixty-minute period.

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[For Distillate Fuel Oil]

COMAR 26.11.09.07A(1)(c), which establishes that the Permittee may not burn, sell, or make available for sale any distillate fuel with sulfur content by weight in excess of 0.3 percent.

- (2) No. 2 Stationary internal combustion engines with an output less than 500 brake horsepower (373 kilowatts) and which are not used to generate electricity for sale or for peak or load shaving;

The affected units are subject to the following requirements:

- (A) COMAR 26.11.09.05B(2), Emissions During Idle Mode: The Permittee may not cause or permit the discharge of emissions from any engine, operating at idle, greater than 10 percent opacity.
- (B) COMAR 26.11.09.05B(3), Emissions During Operating Mode: The Permittee may not cause or permit the discharge of emissions from any engine, operating at other than idle conditions, greater than 40 percent opacity.
- (C) Exceptions:
 - (i) COMAR 26.11.09.05B(2) does not apply for a period of 2 consecutive minutes after a period of idling of 15 consecutive minutes for the purpose of clearing the exhaust system.
 - (ii) COMAR 26.11.09.05B(2) does not apply to emissions resulting directly from cold engine start-up and warm-up for the following maximum periods:
 - (a) Engines that are idled continuously when not in service: 30 minutes
 - (b) all other engines: 15 minutes.
 - (iii) COMAR 26.11.09.05B(2) & (3) do not apply while maintenance, repair or testing is being performed by qualified mechanics.

- (3) ✓ Space heaters utilizing direct heat transfer and used solely for comfort heat;

- (4) No. 15 Unheated VOC dispensing containers or unheated VOC rinsing containers of 60 gallons (227 liters) capacity or less;

The affected units including **EU3-5** are subject to COMAR 26.11.19.09D, which requires that the Permittee control emissions of volatile organic compounds (VOC) from cold degreasing operations by meeting the following requirements:

- (a) COMAR 26.11.19.09D(2)(b), which establishes that the Permittee shall not use any VOC degreasing material that exceeds a vapor pressure of 1 mm Hg at 20 ° C;
- (b) COMAR 26.11.19.09D(3)(a—d), which requires that the Permittee implement good operating practices designed to minimize spills and evaporation of VOC degreasing material. These practices, which shall be established in writing and displayed such that they are clearly visible to operators, shall include covers (including water covers), lids, or other methods of minimizing evaporative losses, and reducing the time and frequency during which parts are cleaned;
- (c) COMAR 26.11.19.09D(4), which prohibits the use of any halogenated VOC for cold degreasing.

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The Permittee shall maintain on site for at least five (5) years, and shall make available to the Department upon request, the following records of operating data:

- (a) Annual records of the total VOC degreasing materials used; and
 - (b) Written descriptions of good operating practices designed to minimize spills and evaporation of VOC degreasing materials.
- (5) Containers, reservoirs, or tanks used exclusively for:
- (a) ☒ Storage of butane, propane, or liquefied petroleum, or natural gas;
 - (b) No. 30 Storage of lubricating oils;
 - (c) No. 7 Storage of Numbers 1, 2, 4, 5, and 6 fuel oil and aviation jet engine fuel;
 - (d) No. >100 The storage of VOC normally used as solvents, diluents, thinners, inks, colorants, paints, lacquers, enamels, varnishes, liquid resins, or other surface coatings and having individual capacities of 2,000 gallons (7.6 cubic meters) or less;
- (6) ☒ Gaseous fuel-fired or electrically heated furnaces for heat treating glass or metals, the use of which does not involve molten materials;
- (7) ☒ Charbroilers and pit barbecues as defined in COMAR 26.11.18.01 with a total cooking area of 5 square feet (0.46 square meter) or less;
- (8) ☒ First aid and emergency medical care provided at the facility, including related activities such as sterilization and medicine preparation used in support of a manufacturing or production process;
- (9) ☒ Certain recreational equipment and activities, such as fireplaces, barbecue pits and cookers, fireworks displays, and kerosene fuel use;
- (10) ☒ Potable water treatment equipment, not including air stripping equipment;
- (11) ☒ Comfort air conditioning subject to requirements of Title VI of the Clean Air Act;
- (12) ☒ Laboratory fume hoods and vents;

For the following, attach additional pages as necessary:

- (13) any other emissions unit, not listed in this section, with a potential to emit less than the "de minimus" levels listed in COMAR 26.11.02.10X (list and describe units):

Installation Date	General Category	CH nos.	2nd CH nos.	Permit#	Title V EU#	EMIT	Control Device	Fuel	CH Emission Point
Jun-89	Drying	126	2555	6-0041	Insig	-	atmos	E	
Nov-95	Drying	2328		6-0041	Insig	VOC	atmos	E	
Jan-02	Forming	62347		6-0104	Insig	PM	fugitive	E	137
Nov-02	Forming	62924		6-0104	Insig	PM	fugitive	E	135
Jun-89	Forming	447		6-0041	Insig	VOC	fugitive	E	

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Installation Date	General Category	CH nos.	2nd CH nos.	Permit#	Title V EU#	EMIT	Control Device	Fuel	CH Emission Point
Jun-89	Forming	1304	241	6-0041	Insig	VOC	fugitive	E	
Jun-89	Forming	1322		6-0041	Insig	VOC	fugitive	E	
Jun-89	Forming	1323		6-0041	Insig	VOC	fugitive	E	
Jun-92	Forming	1949		6-0041	Insig	VOC	fugitive	E	
Dec-07	Forming	1991534		6-0275	Insig	VOC	fugitive	E	
pre-1989	Forming	976		7-0045	Insig	VOC	fugitive	E	26
pre-1989	Forming	1266		7-0045	Insig	VOC	fugitive	E	26
pre-1990	Forming	2052		6-0041	Insig	VOC	fugitive	E	91
pre-1990	Forming	2101		6-0041	Insig	VOC	fugitive	E	129
pre-1990	Forming	1376		7-0045	Insig	VOC	fugitive	E	199
pre-1990	Forming	2014		7-0045	Insig	VOC	fugitive	E	
pre-1990	Forming	2069		7-0045	Insig	VOC	fugitive	E	28
pre-1990	Forming	2371		7-0045	Insig	VOC	fugitive	E	139
Jan-85	Misc	5800		6-0162	Insig	VOC	atmos	E	63
pre-1990	Misc	0		6-0104	Insig	PM	atmos	E	
	Misc	2149	2037 & others	7-0045	Insig	VOC	fugitive	E	
Mar-03	Shaping	6044		7-0045	Insig	COMB	atmos	P	
Oct-04	Shaping	0		7-0045	Insig	VOC	atmos	E	6
pre-1989	Shaping	853		7-0045	Insig	VOC	atmos	E	5
pre-1989	Shaping	982		7-0045	Insig	VOC	atmos	E	18
pre-1989	Shaping	1425		7-0045	Insig	VOC	atmos	E	98
pre-1989	Shaping	1761		7-0045	Insig	VOC	atmos	E	35, 36
Mar-05	Shaping	2180		7-0045	Insig	VOC	fugitive	E	
pre-1990	Shaping	1693		6-0041	Insig	VOC	fugitive	E	116
	Shaping	60265		6-0041	Insig	-	atmos	P	175
Jul-02	Shaping	45159		6-0104	Insig	PM	atmos	E	128
pre-1989	Shaping	242		7-0045	Insig	VOC	fugitive	E	
pre-1989	Shaping	244		7-0045	Insig	VOC	fugitive	E	
	Shaping	2310		7-0045	Insig	VOC	fugitive	E	
pre-1990	Shaping	2344		7-0045	Insig	VOC	atmos	E	10 ,89
2003	Shaping	61670		7-0045	Insig	VOC	atmos	E	15

(14) any other emissions unit at the facility which is not subject to an applicable requirement of the Clean Air Act (list and describe):

Installation Date	General Category	CH nos.	2nd CH nos.	Permit#	Title V EU#	EMIT	Control Device	Fuel	CH Emission Point
Dec-07	Conditioning	0		7-0045	Insig	-	atmos	E	
Mar-07	Conditioning	0		7-0045	Insig	-	atmos	E	
pre-1990	Conditioning	2166		7-0045	Insig	-	atmos	E	67
pre-1990	Conditioning	2413		7-0045	Insig	-	atmos	E	61
pre-1990	Conditioning	2443		7-0045	Insig	-	atmos	E	120
pre-1990	Conditioning	2444		7-0045	Insig	-	atmos	E	118
pre-1990	Conditioning	2445		7-0045	Insig	-	atmos	E	119
Aug-82	Drying	963		6-0130	Insig	VOC	atmos	E	141
pre-1990	Drying	2211		6-0130	Insig	VOC	atmos	E	23

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Installation Date	General Category	CH nos.	2nd CH nos.	Permit#	Title V EU#	EMIT	Control Device	Fuel	CH Emission Point
pre-1990	Drying	2545		6-0130	Insig	VOC	atmos	E	140
pre-1990	Misc	0		7-0045	Insig	VOC	atmos	E	8
	Misc	5084		n/a	3-5	VOC	fugitive	-	
Jan-07	Misc	0		n/a	Insig	COMB	atmos	P	
Jan-07	Misc	0		n/a	Insig	COMB	atmos	P	
Jan-07	Misc	0		n/a	Insig	COMB	atmos	P	
Jan-07	Misc	0		n/a	Insig	COMB	atmos	P	
Jan-99	Misc	0		n/a	Insig	COMB	atmos	P	
Jan-85	Misc	0		n/a	Insig	PM	atmos	E	62
May-07	Shaping	0		7-0045	Insig	-	atmos	E	
2002	Shaping	2411		7-0045	Insig	VOC	atmos	E	
3/6/2007	StackOnly	0		n/a	exempt	VOC	fugitive	E	200
Aug-07	Tank	BAYCH-600 TK1		n/a	4-1	VOC	atmos	-	
Aug-07	Tank	BAYCH-600 TK2		n/a	4-1	VOC	atmos	-	
	Tank	FP Mezz #23		n/a	4-1	VOC	atmos	-	
pre-1990	Tank	TK1709-01		n/a	4-1	VOC	atmos	-	404
pre-1990	Tank	TK1709-02		n/a	4-1	VOC	atmos	-	405
pre-1990	Tank	TK2453-03		n/a	4-1	VOC	atmos	-	406
pre-1991	Tank	TK2542-04		n/a	4-1	VOC	atmos	-	407
pre-1993	Tank	TK2542-05		n/a	4-1	VOC	atmos	-	408
pre-1992	Tank	TK2542-06		n/a	4-1	VOC	atmos	-	409
pre-1990	Tank	TKno-name		n/a	4-1	VOC	atmos	-	410

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STATE ONLY ENFORCEABLE REQUIREMENTS

The Permittee is subject to the following State-only enforceable requirements:

1. Applicable Regulations:

- (a) COMAR 26.11.06.08 - Nuisance. "An installation or premises may not be operated or maintained in such a manner that a nuisance or air pollution is created. Nothing in this regulation relating to the control of emissions may in any manner be construed as authorizing or permitting the creation of, or maintenance of, nuisance or air pollution."
- (b) COMAR 26.11.06.09 – Odors. "A person may not cause or permit the discharge into the atmosphere of gases, vapors, or odors beyond the property line in such a manner that nuisance or air pollution is created."

- (c) COMAR 26.11.09.10 - Requirements to Burn Used Oil and Waste Combustible Fluid as Fuel.

A. General Requirements.

"(1) A person who proposes to burn used oil or waste combustible fluid in an installation shall submit the following information to the Department:

- (a) A description of, and the location of, each fuel-burning equipment or other installation in which the used oil or WCF is to be burned and the rated heat input capacity of each;
 - (b) The type and amount of fuel currently being used in each installation and the gallons of used oil or WCF expected to be burned annually;
 - (c) The maximum percentage of used oil or WCF to be burned as fuel in each installation; and
 - (d) An analysis by an independent laboratory of a representative sample of the used oil or WCF, which shall include the concentration of each of the materials listed in §B of this regulation, the PCB concentration, and the flash point.
- (2) A person may burn on-specification used oil in any installation upon submitting the information required in §A(1) of this regulation.
- (3) A person who is burning used oil or WCF under a current approval issued by the Department may continue to burn the approved material if:
- (a) The person registers the equipment that is burning the used oil or WCF by submitting the information required in §A(1) of this regulation; and
 - (b) The used oil or WCF is being burned in an authorized installation.
- (4) A person who proposes to burn off-specification used oil or WCF in an installation other than a space heater, as provided in 40 CFR §279.23, is subject to the permit or registration requirements in COMAR 26.11.02.
- (5) A person who receives a permit or registration to burn used oil or WCF shall burn only the materials authorized in the permit or registration.
- (6) A person may burn off-specification used oil and waste combustible fluid only in those installations listed at 40 CFR §279.12(c).

B. Specifications for Used Oil.

(1) Except as provided in §B(2) of this regulation, used oil specifications are as follows:

Material	Allowable Level
(a) Lead	100 ppm
(b) Total halogens	4,000 ppm
(c) Arsenic	5 ppm
(d) Cadmium	2 ppm

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(e) Chromium 10 ppm

(f) Flash point 100° F minimum

(2) For used oil that does not satisfy the rebuttable presumption for halogens at 40 CFR 279.10(b)(1)(ii) and 279.63, the maximum allowable level for halogens may not exceed 1,000 ppm.

C. Requirements for Burning Used Oil or WCF Containing PCB.

(1) Used oil or WCF containing quantifiable levels of PCB (2ppm) or greater but less than 50 ppm may be burned only in those installations listed at 40 CFR §279.12(c) or 40 CFR 761.

(2) Used oil or WCF containing PCB with a concentration of 50 ppm or greater is hazardous waste."

(d) COMAR 26.11.15.05 - Control Technology Requirements.

"A. New or Reconstructed Installations. A person may not construct, reconstruct, operate, or cause to be constructed, reconstructed, or operated, any new installation or source that will discharge a toxic air pollutant to the atmosphere without installing and operating T-BACT."

(e) COMAR 26.11.15.06 - Ambient Impact Requirement.

A. Requirements for New Installations, Sources, or Premises.

(1) Except as provided in §A(2) of this regulation, a person may not construct, modify, or operate, or cause to be constructed, modified, or operated, any new installation or source without first demonstrating to the satisfaction of the Department using procedures established in this chapter that total allowable emissions from the premises of each toxic air pollutant discharged by the new installation or source will not unreasonably endanger human health.

(2) If a new installation or source will discharge a TAP that is not listed in COMAR 26.11.16.07 and will be part of an existing premises, then emissions of that TAP from existing sources or existing installations on the premises may be omitted from a screening analysis unless the TAP is added to COMAR 26.11.16.07.

2. Record Keeping and Reporting:

The Permittee shall submit to the Department, by April 1 of each year during the term of this permit, a written certification of the results of an analysis of emissions of toxic air pollutants from the Permittee's facility during the previous calendar year. The analysis shall include either:

(a) a statement that previously submitted compliance demonstrations for emissions of toxic air pollutants remain valid; or

(b) a revised compliance demonstration, developed in accordance with requirements included under COMAR 26.11.15 & 16, that accounts for changes in operations, analytical methods, emissions determinations, or other factors that have invalidated previous demonstrations.

DRAFT PERMIT

Martin O'Malley
Governor

Shari T. Wilson
Secretary

Air and Radiation Management Administration
1800 Washington Boulevard, Suite 720
Baltimore, MD 21230

☐ Construction Permit

☒ Part 70 Operating Permit

PERMIT NO. 24-015-00079

DATE ISSUED August 1, 2008

PERMIT FEE To be paid in accordance with
COMAR 26.11.02.19B(b)

EXPIRATION DATE June 30, 2013

LEGAL OWNER & ADDRESS

W.L. Gore & Associates, Inc.
Cherry Hill Plant
2401 Singerly Road
Elkton, MD 21921
Attn: Mr. Mark. A. Steimer, Sr., Plant Leader

SITE

SAME

Cecil County
AI # 128

SOURCE DESCRIPTION

Fluoropolymer material (FPM) Manufacturing Facility consisting of dryers, ovens and other miscellaneous equipments.

This source is subject to the conditions described on the attached pages.

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Program Manager

Director, Air and Radiation Management Administration

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SECTION I SOURCE IDENTIFICATION

1. DESCRIPTION OF FACILITY

W. L. Gore & Associates, Inc. is a worldwide manufacturing corporation with headquarters in Newark, Delaware. W. L. Gore & Associates, Inc. – Cherry Hill facility is located at 2401 Singerly Road in Cecil County, Maryland. The Cherry Hill plant operations utilize Fluoropolymer material (FPM) forming and stretching equipment. The primary SIC for this facility is 3087.

2. FACILITY INVENTORY LIST

The Cherry Hill plant has identified the following emission units as being subject to the Title V permitting requirements and having applicable requirements.

Emissions Unit Number	MDE Registration Number	CH Number	Emissions Unit Description	Date of Installation
EU 1-1 Particulate Matter Emitting Units	6-0104	63203	Mixing and Compounding Area (Filled Products front end controlled by baghouse	05/2001 & 07/2002
		1931985	Mixing and Compounding Area – fugitive emissions.	08/2002
EU 2-1 Boilers	4-0223 & 4-0224		Two (2) Burnham No.2 fuel oil/propane fired boilers each rated at 9.45 million Btu per hour heat input and equipped with low NO _x burners. Boilers modified on February 8, 2008 to burn used oil and waste combustible fuels.	12/2006 Modified 2/8/08
	4-0156	5456	One Weil McLain No. 2 fuel oil boiler rated at 4.9 million Btu per hour heat input. (Boiler #1). Boiler modified on February 8, 2008 to burn used oil and waste combustible fuels	03/1985 Modified 2/8/08
	4-0200	2594	One Weil McLain No. 2 fuel oil boiler rated at 8.6 million Btu per hour heat input. (Boiler #3). Boiler modified on February 8, 2008 to burn used oil and waste combustible fuels	11/1997 Modified 2/8/08
EU2-2 Emergency Generator	9-0169		One (1) Onan 1200 bhp (800 kW) diesel emergency generator	12/2006
EU 3-1 Natural FPM Product Area vented through the oxidizer	6-0102	2203	R&D Wing (TD1) vented to the oxidizer control system & atmosphere.	01//1995
	6-0100	2208	Truck drying oven located in the FPM Area vented to an oxidizer control system and to the atmosphere.	09/1994

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Emissions Unit Number	MDE Registration Number	CH Number	Emissions Unit Description	Date of Installation
control system	7-0045	1045, 1314, 1632,* 2056, 1381	Five (5) Drum dryers located in the FPM Area vented to the oxidizer control system and vented to the atmosphere.	Pre 1990
	6-0275	1899969	Dryer-Med tenter vented to an oxidizer control system.	08/2007
	6-0260	1316	One dryer vented to an oxidizer control system.	Pre-1990
EU 3-2 Filled FPM Products Area vented through the oxidizer control system	6-0126	2383	Oven (TD2) located in the filled area vented to the oxidizer control system and to the atmosphere.	06/1996
	6-0276	2404	Oven (TD3) located in the FPM area vented to the oxidizer control system and to the atmosphere.	07/1997
	6-0131	2204	Oven (GT7) located in the R&D area vented to the oxidizer control system and to the atmosphere.	09/1996
	6-0279	2615	R&D oven vented to an oxidizer control system.	05/1999
EU 3-3 FPM Processing Area vented to atmosphere	6-0073	2573	One (1) drying oven in FP and vented to the atmosphere.	01/1999
	6-0130	0685, 2281, 2260, 2505	Four (4) electric ovens: Three (3) located in the Resin area Lab; one in the Gen Lab; and all vented to the atmosphere.	08/1982, 07/1996 & 09/1999
	6-0041	2365 & 2366	Two (2) R&D ovens located in the Filled Product area vented to the atmosphere.	07/1992 & 10/2003
EU 3-4 Ovens vented to Oxidizer control system	6-0173 M	60564	One (1) batch-drying oven vented to the oxidizer control system to control VOC emissions and vented to the atmosphere.	12/1999
		2439, 2440	Two (2) batch-drying ovens vented to the oxidizer control system to control VOC emissions and vented to the atmosphere.	03/1999
		2597 & 2598	Two (2) batch-drying ovens vented to the oxidizer control system to control VOC emissions and vented to the atmosphere.	02/2000
		2369, 60535, 62581	Oxidizer Control System consisting of Willie, Sara & Tec.	06/1996;03/1999; 01/2002
	6-0278	60648	One Rover dryer vented to the oxidizer control system and vented to the atmosphere.	01/1999

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Emissions Unit Number	MDE Registration Number	CH Number	Emissions Unit Description	Date of Installation
	6-0192	62177	One (1) batch-drying oven vented to the oxidizer control system to control VOC emissions and vented to the atmosphere.	04/2002
EU 3-5		PM5084	Cold Maintenance Degreaser (30.5 gallon capacity). See Insignificant Activity List.	

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SECTION II GENERAL CONDITIONS

1. DEFINITIONS

[COMAR 26.11.01.01] and [COMAR 26.11.02.01]

The words or terms in this Part 70 permit shall have the meanings established under COMAR 26.11.01 and .02 unless otherwise stated in this permit.

2. ACRONYMS

ARMA	Air and Radiation Management Administration
BACT	Best Available Control Technology
Btu	British thermal unit
CAA	Clean Air Act
CAM	Compliance Assurance Monitoring
CEM	Continuous Emissions Monitor
CFR	Code of Federal Regulations
CO	Carbon Monoxide
COMAR	Code of Maryland Regulations
EPA	United States Environmental Protection Agency
FR	Federal Register
gr	grains
HAP	Hazardous Air Pollutant
MACT	Maximum Achievable Control Technology
MDE	Maryland Department of the Environment
MVAC	Motor Vehicle Air Conditioner
NESHAPS	National Emission Standards for Hazardous Air Pollutants
NO _x	Nitrogen Oxides
NSPS	New Source Performance Standards
NSR	New Source Review
OTR	Ozone Transport Region
PM	Particulate Matter
PM10	Particulate Matter with Nominal Aerodynamic Diameter of 10 micrometers or less
ppm	parts per million
ppb	parts per billion
PSD	Prevention of Significant Deterioration
PTC	Permit to construct
PTO	Permit to operate (State)
SIC	Standard Industrial Classification

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SO ₂	Sulfur Dioxide
TAP	Toxic Air Pollutant
tpy	tons per year
VE	Visible Emissions
VOC	Volatile Organic Compounds

3. EFFECTIVE DATE

The effective date of the conditions in this Part 70 permit is the date of permit issuance, unless otherwise stated in the permit.

4. PERMIT EXPIRATION

[COMAR 26.11.03.13B(2)]

Upon expiration of this permit, the terms of the permit will automatically continue to remain in effect until a new Part 70 permit is issued for this facility provided that the Permittee has submitted a timely and complete application and has paid applicable fees under COMAR 26.11.02.16.

Otherwise, upon expiration of this permit the right of the Permittee to operate this facility is terminated.

5. PERMIT RENEWAL

[COMAR 26.11.03.02B(3)] and [COMAR 26.11.03.02E]

The Permittee shall submit to the Department a completed application for renewal of this Part 70 permit at least 6 months, but not more than 12 months, before the expiration of the permit. Upon submitting a completed application, the Permittee may continue to operate this facility pending final action by the Department on the renewal.

The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall submit such supplementary facts or corrected information no later than 10 days after becoming aware that this occurred. The Permittee shall also provide additional information as necessary to address any requirements that become applicable to the facility after the date a completed application was submitted, but prior to the release of a draft permit. This

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information shall be submitted to the Department no later than 20 days after a new requirement has been adopted.

6. CONFIDENTIAL INFORMATION

[COMAR 26.11.02.02G]

In accordance with the provisions of the State Government Article, Sec. 10-611 et seq., Annotated Code of Maryland, all information submitted in an application shall be considered part of the public record and available for inspection and copying, unless the Permittee claims that the information is confidential when it is submitted to the Department. At the time of the request for inspection or copying, the Department will make a determination with regard to the confidentiality of the information. The Permittee, when requesting confidentiality, shall identify the information in a manner specified by the Department and, when requested by the Department, promptly provide specific reasons supporting the claim of confidentiality. Information submitted to the Department without a request that the information be deemed confidential may be made available to the public. Subject to approval of the Department, the Permittee may provide a summary of confidential information that is suitable for public review. The content of this Part 70 permit is not subject to confidential treatment.

7. PERMIT ACTIONS

[COMAR 26.11.03.06E(3)] and [COMAR 26.11.03.20(A)]

This Part 70 permit may be revoked or reopened and revised for cause. The filing of an application by the Permittee for a permit revision or renewal; or a notification of termination, planned changes or anticipated noncompliance by the facility, does not stay a term or condition of this permit.

The Department shall reopen and revise, or revoke the Permittee's Part 70 permit under the following circumstances:

- a. Additional requirements of the Clean Air Act become applicable to this facility and the remaining permit term is 3 years or more;

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- b. The Department or the EPA determines that this Part 70 permit contains a material mistake, or is based on false or inaccurate information supplied by or on behalf of the Permittee;
- c. The Department or the EPA determines that this Part 70 permit must be revised or revoked to assure compliance with applicable requirements of the Clean Air Act; or
- d. Additional requirements become applicable to an affected source under the Federal Acid Rain Program.

8. PERMIT AVAILABILITY

[COMAR 26.11.02.13G]

The Permittee shall maintain this Part 70 permit in the vicinity of the facility for which it was issued, unless it is not practical to do so, and make this permit immediately available to officials of the Department upon request.

9. REOPENING THE PART 70 PERMIT FOR CAUSE BY THE EPA

[COMAR 26.11.03.20B]

The EPA may terminate, modify, or revoke and reissue a permit for cause as prescribed in 40 CFR §70.7(g)

10. TRANSFER OF PERMIT

[COMAR 26.11.02.02E]

The Permittee shall not transfer this Part 70 permit except as provided in COMAR 26.11.03.15.

11. REVISION OF PART 70 PERMITS – GENERAL CONDITIONS

[COMAR 26.11.03.14] and [COMAR 26.11.03.06A(8)]

- a. The Permittee shall submit an application to the Department to revise this Part 70 permit when required under COMAR 26.11.03.15 -.17.

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- b. When applying for a revision to a Part 70 permit, the Permittee shall comply with the requirements of COMAR 26.11.03.02 and .03 except that the application for a revision need include only information listed that is related to the proposed change to the source and revision to the permit. This information shall be sufficient to evaluate the proposed change and to determine whether it will comply with all applicable requirements of the Clean Air Act.
- c. The Permittee may not change any provision of a compliance plan or schedule in a Part 70 permit as an administrative permit amendment or as a minor permit modification unless the change has been approved by the Department in writing.
- d. A permit revision is not required for a change that is provided for in this permit relating to approved economic incentives, marketable permits, emissions trading, and other similar programs.

12. SIGNIFICANT PART 70 OPERATING PERMIT MODIFICATIONS

[COMAR 26.11.03.17]

The Permittee may apply to the Department to make a significant modification to its Part 70 Permit as provided in COMAR 26.11.03.17 and in accordance with the following conditions:

- a. A significant modification is a revision to the federally enforceable provisions in the permit that does not qualify as an administrative permit amendment under COMAR 26.11.03.15 or a minor permit modification as defined under COMAR 26.11.03.16.
- b. This permit does not preclude the Permittee from making changes, consistent with the provisions of COMAR 26.11.03, that would make the permit or particular terms and conditions of the permit irrelevant, such as by shutting down or reducing the level of operation of a source or of an emissions unit within the source. Air pollution control equipment shall not be shut down or its level of operation reduced if doing so would violate any term of this permit.
- c. Significant permit modifications are subject to all requirements of COMAR 26.11.03 as they apply to permit issuance and renewal,

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including the requirements for applications, public participation, and review by affected states and EPA, except:

- (1) An application need include only information pertaining to the proposed change to the source and modification of this permit, including a description of the change and modification, and any new applicable requirements of the Clean Air Act that will apply if the change occurs;
 - (2) Public participation, and review by affected states and EPA, is limited to only the application and those federally enforceable terms and conditions of the Part 70 permit that are affected by the significant permit modification.
- d. As provided in COMAR 26.11.03.15B(5), an administrative permit amendment may be used to make a change that would otherwise require a significant permit modification if procedures for enhanced preconstruction review of the change are followed that satisfy the requirements of 40 CFR 70.7(d)(1)(v).
 - e. Before making a change that qualifies as a significant permit modification, the Permittee shall obtain all permits-to-construct and approvals required by COMAR 26.11.02.
 - f. The Permittee shall not make a significant permit modification that results in a violation of any applicable requirement of the Clean Air Act.
 - g. The permit shield in COMAR 26.11.03.23 applies to a final significant permit modification that has been issued by the Department, to the extent applicable under COMAR 26.11.03.23.

13. MINOR PERMIT MODIFICATIONS

[COMAR 26.11.03.16]

The Permittee may apply to the Department to make a minor modification to the federally enforceable provisions of this Part 70 permit as provided in COMAR 26.11.03.16 and in accordance with the following conditions:

- a. A minor permit modification is a Part 70 permit revision that:

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- (1) Does not result in a violation of any applicable requirement of the Clean Air Act;
- (2) Does not significantly revise existing federally enforceable monitoring, including test methods, reporting, record keeping, or compliance certification requirements except by:
 - (a) Adding new requirements,
 - (b) Eliminating the requirements if they are rendered meaningless because the emissions to which the requirements apply will no longer occur, or
 - (c) Changing from one approved test method for a pollutant and source category to another;
- (3) Does not require or modify a:
 - (a) Case-by-case determination of a federally enforceable emissions standard,
 - (b) Source specific determination for temporary sources of ambient impacts, or
 - (c) Visibility or increment analysis;
- (4) Does not seek to establish or modify a federally enforceable permit term or condition for which there is no corresponding underlying applicable requirement of the Clean Air Act, but that the Permittee has assumed to avoid an applicable requirement to which the source would otherwise be subject, including:
 - (a) A federally enforceable emissions standard applied to the source pursuant to COMAR 26.11.02.03 to avoid classification as a Title I modification; and
 - (b) An alternative emissions standard applied to an emissions unit pursuant to regulations promulgated under Section 112(i)(5) of the Clean Air Act
- (5) Is not a Title I modification; and

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- (6) Is not required under COMAR 26.11.03.17 to be processed as a significant modification to this Part 70 permit.

b. Application for a Minor Permit Modification

The Permittee shall submit to the Department an application for a minor permit modification that satisfies the requirements of COMAR 26.11.03.03 which includes the following:

- (1) A description of the proposed change, the emissions resulting from the change, and any new applicable requirements that will apply if the change is made;
- (2) The proposed minor permit modification;
- (3) Certification by a responsible official, in accordance with COMAR 26.11.02.02F, that:
 - (a) The proposed change meets the criteria for a minor permit modification, and
 - (b) The Permittee has obtained or applied for all required permits-to-construct required by COMAR 26.11.03.16 with respect to the proposed change;
- (4) Completed forms for the Department to use to notify the EPA and affected states, as required by COMAR 26.11.03.07-.12.

c. Permittee's Ability to Make Change

- (1) For changes proposed as minor permit modifications to this permit that will require the applicant to obtain a permit to construct, the permit to construct must be issued prior to the new change.
- (2) During the period of time after the Permittee applies for a minor modification but before the Department acts in accordance with COMAR 26.11.03.16F(2):
 - (a) The Permittee shall comply with applicable requirements of the Clean Air Act related to the change and the permit terms and conditions described in the application for the minor modification.

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- (b) The Permittee is not required to comply with the terms and conditions in the permit it seeks to modify. If the Permittee fails to comply with the terms and conditions in the application during this time, the terms and conditions of both this permit and the application for modification may be enforced against it.
- d. The Permittee is subject to enforcement action if it is determined at any time that a change made under COMAR 26.11.03.16 is not within the scope of this regulation.
- e. Minor permit modification procedures may be used for Part 70 permit modifications involving the use of economic incentives, marketable permits, emissions trading, and other similar approaches, but only to the extent that the minor permit modification procedures are explicitly provided for in regulations approved by the EPA as part of the Maryland SIP or in other applicable requirements of the Clean Air Act.

14. ADMINISTRATIVE PART 70 OPERATING PERMIT AMENDMENTS

[COMAR 26.11.03.15]

The Permittee may apply to the department to make an administrative permit amendment as provided in COMAR 26.11.03.15 and in accordance with the following conditions:

- a. An application for an administrative permit amendment shall:
 - (1) Be in writing;
 - (2) Include a statement certified by a responsible official that the proposed amendment meets the criteria in COMAR 26.11.03.15 for an administrative permit amendment, and
 - (3) Identify those provisions of this part 70 permit for which the amendment is requested, including the basis for the request.
- b. An administrative permit amendment:
 - (1) Is a correction of a typographical error;

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- (2) Identifies a change in the name, address, or phone number of a person identified in this permit, or a similar administrative change involving the Permittee or other matters which are not directly related to the control of air pollution;
 - (3) requires more frequent monitoring or reporting by the Permittee;
 - (4) Allows for a change in ownership or operational control of a source for which the Department determines that no other revision to the permit is necessary and is documented as per COMAR 26.11.03.15B(4);
 - (5) Incorporates into this permit the requirements from preconstruction review permits or approvals issued by the Department in accordance with COMAR 26.11.03.15B(5), but only if it satisfies 40 CFR 70.7(d)(1)(v);
 - (6) Incorporates any other type of change, as approved by the EPA, which is similar to those in COMAR 26.11.03.15B(1)—(4);
 - (7) Notwithstanding COMAR 26.11.03.15B(1)—(6), all modifications to acid rain control provisions included in this Part 70 permit are governed by applicable requirements promulgated under Title IV of the Clean Air Act; or
 - (8) Incorporates any change to a term or condition specified as State-only enforceable, if the Permittee has obtained all necessary permits-to-construct and approvals that apply to the change.
- c. The Permittee may make the change addressed in the application for an administrative amendment upon receipt by the Department of the application, if all permits-to-construct or approvals otherwise required by COMAR 26.11.02 prior to making the change have first been obtained from the Department.
 - d. The permit shield in COMAR 26.11.03.23 applies to administrative permit amendments made under Section B(5) of COMAR 26.11.03.15 , but only after the Department takes final action to revise the permit.

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- e. The Permittee is subject to enforcement action if it is determined at any time that a change made under COMAR 26.11.03.15 is not within the scope of this regulation.

15. OFF-PERMIT CHANGES TO THIS SOURCE

[COMAR 26.11.03.19]

The Permittee may make off-permit changes to this facility as provided in COMAR 26.11.03.19 and in accordance with the following conditions:

- a. The Permittee may make a change to this permitted facility that is not addressed or prohibited by the federally enforceable conditions of this Part 70 permit without obtaining a Part 70 permit revision if:
 - (1) The Permittee has obtained all permits and approvals required by COMAR 26.11.02 and .03;
 - (2) The change is not subject any requirements under Title IV of the Clean Air Act;
 - (3) The change is not a Title I modification; and
 - (4) The change does not violate an applicable requirement of the Clean Air Act or a federally enforceable term or condition of the permit.
- b. For a change that qualifies under COMAR 26.11.03.19, the Permittee shall provide contemporaneous written notice to the Department and the EPA, except for a change to an emissions unit or activity that is exempt from the Part 70 permit application, as provided in COMAR 26.11.03.04. This written notice shall describe the change, including the date it was made, any change in emissions, including the pollutants emitted, and any new applicable requirements of the Clean Air Act that apply as a result of the change.
- c. Upon satisfying the requirements of COMAR 26.11.03.19, the Permittee may make the proposed change.
- d. The Permittee shall keep a record describing:

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- (1) Changes made at the facility that result in emissions of a regulated air pollutant subject to an applicable requirement of the Clean Air Act, but not otherwise regulated under this permit; and
- (2) The emissions resulting from those changes.
- e. Changes that qualify under COMAR 26.11.03.19 are not subject to the requirements for Part 70 revisions.
- f. The Permittee shall include each off-permit change under COMAR 26.11.03.19 in the application for renewal of the part 70 permit.
- g. The permit shield in COMAR 26.11.03.23 does not apply to off-permit changes made under COMAR 26.11.03.19.
- h. The Permittee is subject to enforcement action if it is determined that an off-permit change made under COMAR 26.11.03.19 is not within the scope of this regulation.

16. ON-PERMIT CHANGES TO SOURCES

[COMAR 26.11.03.18]

The Permittee may make on-permit changes that are allowed under Section 502(b)(10) of the Clean Air Act as provided in COMAR 26.11.03.18 and in accordance with the following conditions:

- a. The Permittee may make a change to this facility without obtaining a revision to this Part 70 permit if:
 - (1) The change is not a Title I modification;
 - (2) The change does not result in emissions in excess of those expressly allowed under the federally enforceable provisions of the Part 70 permit for the permitted facility or for an emissions unit within the facility, whether expressed as a rate of emissions or in terms of total emissions;
 - (3) The Permittee has obtained all permits and approvals required by COMAR 26.11.02 and .03;

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- (4) The change does not violate an applicable requirement of the Clean Air Act;
 - (5) The change does not violate a federally enforceable permit term or condition related to monitoring, including test methods, record keeping, reporting, or compliance certification requirements;
 - (6) The change does not violate a federally enforceable permit term or condition limiting hours of operation, work practices, fuel usage, raw material usage, or production levels if the term or condition has been established to limit emissions allowable under this permit;
 - (7) If applicable, the change does not modify a federally enforceable provision of a compliance plan or schedule in this Part 70 permit unless the Department has approved the change in writing; and
 - (8) This permit does not expressly prohibit the change under COMAR 26.11.03.18.
- b. The Permittee shall notify the Department and the EPA in writing of a proposed on-permit change under COMAR 26.11.03.18 not later than 7 days before the change is made. The written information shall include the following information:
- (1) A description of the proposed change;
 - (2) The date on which the change is proposed to be made;
 - (3) Any change in emissions resulting from the change, including the pollutants emitted;
 - (4) Any new applicable requirement of the Clean Air Act; and
 - (5) Any permit term or condition that would no longer apply.
- c. The responsible official of this facility shall certify in accordance with COMAR 26.11.02.02F that the proposed change meets the criteria for the use of on-permit changes under COMAR 26.11.03.18.
- d. The Permittee shall attach a copy of each notice required by condition b. above to this Part 70 permit.

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- e. On-permit changes that qualify under COMAR 26.11.03.18 are not subject to the requirements for part 70 permit revisions.
- f. Upon satisfying the requirements under COMAR 26.11.03.18, the Permittee may make the proposed change.
- g. The permit shield in COMAR 26.11.03.23 does not apply to on-permit changes under COMAR 26.11.03.18.
- h. The Permittee is subject to enforcement action if it is determined that an on-permit change made under COMAR 26.11.03.18 is not within the scope of the regulation or violates any requirement of the State air pollution control law.

17. FEE PAYMENT

[COMAR 26.11.02.16A(2) & (5)(b)]

- a. The fee for this Part 70 permit is as prescribed in Regulation .19 of COMAR 26.11.02.
- b. The fee is due on and shall be paid on or before each 12-month anniversary date of the permit.
- c. Failure to pay the annual permit fee constitutes cause for revocation of the permit by the Department.

18. REQUIREMENTS FOR PERMITS-TO-CONSTRUCT AND APPROVALS

[COMAR 26.11.02.09.]

The Permittee may not construct or modify or cause to be constructed or modified any of the following sources without first obtaining, and having in current effect, the specified permits-to-construct and approvals:

- a. New Source Review source, as defined in COMAR 26.11.01.01, approval required, except for generating stations constructed by electric companies;

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- b. Prevention of Significant Deterioration source, as defined in COMAR 26.11.01.01, approval required, except for generating stations constructed by electric companies;
- c. New Source Performance Standard source, as defined in COMAR 26.11.01.01, permit to construct required, except for generating stations constructed by electric companies;
- d. National Emission Standards for Hazardous Air Pollutants source, as defined in COMAR 26.11.01.01, permit to construct required, except for generating stations constructed by electric companies;
- e. A stationary source of lead that discharges one ton per year or more of lead or lead compounds measured as elemental lead, permit to construct required, except for generating stations constructed by electric companies;
- f. All stationary sources of air pollution, including installations and air pollution control equipment, except as listed in COMAR 26.11.02.10, permit to construct required;
- g. In the event of a conflict between the applicability of (a.— e.) above and an exemption listed in COMAR 26.11.02.10, the provision that requires a permit applies.
- h. Approval of a PSD or NSR source by the Department does not relieve the Permittee obtaining an approval from also obtaining all permits-to-construct required b y (c.— g.) above.

19. CONSOLIDATION OF PROCEDURES FOR PUBLIC PARTICIPATION

[COMAR 26.11.02.11C] and [COMAR 26.11.03.01K]

The Permittee may request the Department to authorize special procedures for the Permittee to apply simultaneously, to the extent possible, for a permit to construct and a revision to this permit.

These procedures may provide for combined public notices, informational meetings, and public hearings for both permits but shall not adversely affect the rights of a person, including EPA and affected states, to obtain information about the application for a permit, to comment on an application, or to challenge a permit that is issued.

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These procedures shall not alter any existing permit procedures or time frames.

20. PROPERTY RIGHTS

[COMAR 26.11.03.06E(4)]

This Part 70 permit does not convey any property rights of any sort, or any exclusive privileges.

21. SEVERABILITY

[COMAR 26.11.03.06A(5)]

If any portion of this Part 70 permit is challenged, or any term or condition deemed unenforceable, the remainder of the requirements of the permit continues to be valid.

22. INSPECTION AND ENTRY

[COMAR 26.11.03.06G(3)]

The Permittee shall allow employees and authorized representatives of the Department, the EPA, and local environmental health agencies, upon presentation of credentials or other documents as may be required by law, to:

- a. Enter at a reasonable time without delay and without prior notification the Permittee's property where a Part 70 source is located, emissions-related activity is conducted, or records required by this permit are kept;
- b. Have access to and make copies of records required by the permit;
- c. Inspect all emissions units within the facility subject to the permit and all related monitoring systems, air pollution control equipment, and practices or operations regulated or required by the permit; and

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- d. Sample or monitor any substances or parameters at or related to the emissions units at the facility for the purpose of determining compliance with the permit.

23. DUTY TO PROVIDE INFORMATION

[COMAR 26.11.03.06E(5)]

The Permittee shall furnish to the Department, within a reasonable time specified by the Department, information requested in writing by the Department in order to determine whether the Permittee is in compliance with the federally enforceable conditions of this Part 70 permit, or whether cause exists for revising or revoking the permit. Upon request, the Permittee shall also furnish to the Department records required to be kept under the permit.

For information claimed by the Permittee to be confidential and therefore potentially not discloseable to the public, the Department may require the Permittee to provide a copy of the records directly to the EPA along with a claim of confidentiality.

The Permittee shall also furnish to the Department, within a reasonable time specified by the Department, information or records requested in writing by the Department in order to determine if the Permittee is in compliance with the State-only enforceable conditions of this permit.

24. COMPLIANCE REQUIREMENTS

[COMAR 26.11.03.06E(1)] and [COMAR 26.11.03.06A(11)] and [COMAR 26.11.02.05]

The Permittee shall comply with the conditions of this Part 70 permit. Noncompliance with the permit constitutes a violation of the Clean Air Act, and/or the Environment Article Title 2 of the Annotated Code of Maryland and may subject the Permittee to:

- a. Enforcement action,
- b. Permit revocation or revision,
- c. Denial of the renewal of a Part 70 permit, or

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d. Any combination of these actions.

The conditions in this Part 70 permit are enforceable by EPA and citizens under the Clean Air Act except for the State-only enforceable conditions.

Under Environment Article Section 2-609, Annotated Code of Maryland, the Department may seek immediate injunctive relief against a person who violates this permit in such a manner as to cause a threat to human health or the environment.

25. CREDIBLE EVIDENCE

Nothing in this permit shall be interpreted to preclude the use of credible evidence to demonstrate noncompliance with any term of this permit.

26. NEED TO HALT OR REDUCE ACTIVITY NOT A DEFENSE

[COMAR 26.11.03.06E(2)]

The need to halt or reduce activity in order to comply with the conditions of this permit may not be used as a defense in an enforcement action.

27. CIRCUMVENTION

[COMAR 26.11.01.06]

The Permittee may not install or use any article, machine, equipment or other contrivance, the use of which, without resulting in a reduction in the total weight of emissions, conceals or dilutes emissions, which would otherwise constitute a violation of any applicable air pollution control regulation.

28. PERMIT SHIELD

[COMAR 26.11.03.23]

A permit shield as described in COMAR 26.11.03.23 shall apply only to terms and conditions in this Part 70 permit that have been specifically

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identified as covered by the permit shield. Neither this permit nor COMAR 26.11.03.23 alters the following:

- a. The emergency order provisions in Section 303 of the Clean Air Act, including the authority of EPA under that section;
- b. The liability of the Permittee for a violation of an applicable requirement of the Clean Air Act before or when this permit is issued or for a violation that continues after issuance;
- c. The requirements of the Acid Rain Program, consistent with Section 408(a) of the Clean Air Act;
- d. The ability of the Department or EPA to obtain information from a source pursuant to Maryland law and Section 114 of the Clean Air Act; or
- e. The authority of the Department to enforce an applicable requirement of the State air pollution control law that is not an applicable requirement of the Clean Air Act.

29. ALTERNATE OPERATING SCENARIOS

[COMAR 26.11.03.06A(9)]

For all alternate operating scenarios approved by the Department and contained within this permit, the Permittee, while changing from one approved scenario to another, shall contemporaneously record in a log maintained at the facility each scenario under which the emissions unit is operating and the date and time the scenario started and ended.

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SECTION III PLANT WIDE CONDITIONS

1. PARTICULATE MATTER FROM CONSTRUCTION AND DEMOLITION

[COMAR 26.11.06.03D]

The Permittee shall not cause or permit any building, its appurtenances, or a road to be used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne.

2. OPEN BURNING

[COMAR 26.11.07]

Except as provided in COMAR 26.11.07.04, the Permittee shall not cause or permit an open fire from June 1 through August 31 of any calendar year. Prior to any open burning, the Permittee shall request and receive approval from the Department.

3. AIR POLLUTION EPISODE

[COMAR 26.11.05.04]

When requested by the Department, the Permittee shall prepare in writing standby emissions reduction plans, consistent with good industrial practice and safe operating procedures, for reducing emissions creating air pollution during periods of Alert, Warning, and Emergency of an air pollution episode.

4. REPORT OF EXCESS EMISSIONS AND DEVIATIONS

[COMAR 26.11.01.07] and [COMAR 26.11.03.06C(7)]

The Permittee shall comply with the following conditions for occurrences of excess emissions and deviations from requirements of this permit, including those in Section VI – State-only Enforceable Conditions:

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- a. Report any deviation from permit requirements that could endanger human health or the environment, by orally notifying the Department immediately upon discovery of the deviation;
- b. Promptly report all occurrences of excess emissions that are expected to last for one hour or longer by orally notifying the Department of the onset and termination of the occurrence;
- c. When requested by the Department the Permittee shall report all deviations from permit conditions, including those attributed to malfunctions as defined in COMAR 26.11.01.07A, within 5 days of the request by submitting a written description of the deviation to the Department. The written report shall include the cause, dates and times of the onset and termination of the deviation, and an account of all actions planned or taken to reduce, eliminate, and prevent recurrence of the deviation;
- d. The Permittee shall submit to the Department semi-annual monitoring reports that confirm that all required monitoring was performed, and that provide accounts of all deviations from permit requirements that occurred during the reporting periods. Reporting periods shall be January 1 through June 30 and July 1 through December 31, and reports shall be submitted within 30 days of the end of each reporting period. Each account of deviation shall include a description of the deviation, the dates and times of onset and termination, identification of the person who observed or discovered the deviation, causes and corrective actions taken, and actions taken to prevent recurrence. If no deviations from permit conditions occurred during a reporting period, the Permittee shall submit a written report that so states.
- e. When requested by the Department, the Permittee shall submit a written report to the Department within 10 days of receiving the request concerning an occurrence of excess emissions. The report shall contain the information required in COMAR 26.11.01.07D(2).

5. ACCIDENTAL RELEASE PROVISIONS

[COMAR 26.11.03.03B(23)] and [40 CFR 68]

Should the Permittee become subject to 40 CFR 68 during the term of this permit, the Permittee shall submit risk management plans by the date

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specified in 40 CFR 68.150 and shall certify compliance with the requirements of 40 CFR 68 as part of the annual compliance certification as required by 40 CFR 70.

The Permittee shall initiate a permit revision or reopening according to the procedures of 40 CFR 70.7 to incorporate appropriate permit conditions into the Permittee's Part 70 permit.

6. GENERAL TESTING REQUIREMENTS

[COMAR 26.11.01.04]

The Department may require the Permittee to conduct, or have conducted, testing to determine compliance with this Part 70 permit. The Department, at its option, may witness or conduct these tests. This testing shall be done at a reasonable time, and all information gathered during a testing operation shall be provided to the Department.

7. EMISSIONS TEST METHODS

[COMAR 26.11.01.04]

Compliance with the emissions standards and limitations in this Part 70 permit shall be determined by the test methods designated and described below or other test methods submitted to and approved by the Department.

Reference documents of the test methods approved by the Department include the following:

- a. 40 CFR 60, appendix A
- b. 40 CFR 51, appendix M
- c. The Department's Technical Memorandum 91-01 "Test Methods and Equipment Specifications for Stationary Sources", (January 1991), as amended through Supplement 3, (October 1, 1997)

8. EMISSIONS CERTIFICATION REPORT

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[COMAR 26.11.01.05-1] and [COMAR 26.11.02.19C] and
[COMAR 26.11.02.19D]

The Permittee shall certify actual annual emissions of regulated pollutants from the facility on a calendar year basis.

- a. The certification shall be on forms obtained from the Department and submitted to the Department not later than April 1 of the year following the year for which the certification is required;
- b. The individual making the certification shall certify that the information is accurate to the individual's best knowledge. The individual shall be:
 - (1) Familiar with each source for which the certifications forms are submitted, and
 - (2) Responsible for the accuracy of the emissions information;
- c. The Permittee shall maintain records necessary to support the emissions certification including the following information if applicable:
 - (1) The total amount of actual emissions of each regulated pollutant and the total of all regulated pollutants;
 - (2) An explanation of the methods used to quantify the emissions and the operating schedules and production data that were used to determine emissions, including significant assumptions made;
 - (3) Amounts, types and analyses of all fuels used;
 - (4) Emissions data from continuous emissions monitors that are required by this permit, including monitor calibration and malfunction information;
 - (5) Identification, description, and use records of all air pollution control equipment and compliance monitoring equipment including:
 - (a) Significant maintenance performed,
 - (b) Malfunctions and downtime, and

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- (c) Episodes of reduced efficiency of all equipment;
- (6) Limitations on source operation or any work practice standards that significantly affect emissions; and
- (7) Other relevant information as required by the Department.

9. COMPLIANCE CERTIFICATION REPORT

[COMAR 26.11.03.06G(6) and (7)]

The Permittee shall submit to the Department and EPA Region III a report certifying compliance with each term of this Part 70 permit including each applicable standard, emissions limitation, and work practice for the previous calendar year by April 1 of each year.

- a. The compliance certification shall include:
 - (1) The identification of each term or condition of this permit which is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether the compliance was continuous or intermittent;
 - (4) The methods used for determining the compliance status of each source, currently and over the reporting period; and
 - (5) Any other information required to be reported to the Department that is necessary to determine the compliance status of the Permittee with this permit.
- b. The Permittee shall submit the compliance certification reports to the Department and EPA simultaneously.

10. CERTIFICATION BY RESPONSIBLE OFFICIAL

[COMAR 26.11.02.02F]

All application forms, reports, and compliance certifications submitted pursuant to this permit shall be certified by a responsible official as to

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truth, accuracy, and completeness. The Permittee shall expeditiously notify the Department of an appointment of a new responsible official.

The certification shall be in the following form:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

11. SAMPLING AND EMISSIONS TESTING RECORD KEEPING

[COMAR 26.11.03.06C(5)]

The Permittee shall gather and retain the following information when sampling and testing for compliance demonstrations:

- a. The location as specified in this permit, and the date and time that samples and measurements are taken;
- b. All pertinent operating conditions existing at the time that samples and measurements are taken;
- c. The date that each analysis of a sample or emissions test is performed and the name of the person taking the sample or performing the emissions test;
- d. The identity of the Permittee, individual, or other entity that performed the analysis;
- e. The analytical techniques and methods used; and
- f. The results of each analysis.

12. GENERAL RECORDKEEPING

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[COMAR 26.11.03.06C(6)]

The Permittee shall retain records of all monitoring data and information that support the compliance certification for a period of five (5) years from the date that the monitoring, sample measurement, application, report or emissions test was completed or submitted to the Department.

These records and support information shall include:

- a. All calibration and maintenance records;
- b. All original data collected from continuous monitoring instrumentation;
- c. Records which support the annual emissions certification; and
- d. Copies of all reports required by this permit.

13. GENERAL CONFORMITY

[COMAR 26.11.26.09]

The Permittee shall comply with the general conformity requirements of 40 CFR 93, Subpart B and COMAR 26.11.26.09.

14. ASBESTOS PROVISIONS

[40 CFR 61, Subpart M]

The Permittee shall comply with 40 CFR 61, Subpart M when conducting any renovation or demolition activities at the facility.

15. OZONE DEPLETING REGULATIONS

[40 CFR 82, Subpart F]

The Permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, except as provided for MVACs in subpart B:

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- a. Persons opening appliances for maintenance, service, repair, or disposal shall comply with the prohibitions and required practices pursuant to 40 CFR 82.154 and 82.156.
 - b. Equipment used during the maintenance, service, repair or disposal of appliances shall comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
 - c. Persons performing maintenance, service, repairs or disposal of appliances shall be certified by an approved technician certification program pursuant to 40 CFR 82.161.
 - d. Persons performing maintenance, service, repairs or disposal of appliances shall certify with the Administrator pursuant to 40 CFR 82.162.
 - e. Persons disposing of small appliances, MVACS, and MVAC-like appliances as defined in 40 CFR 82.152, shall comply with record keeping requirements pursuant to 40 CFR 82.166.
 - f. Persons owning commercial or industrial process refrigeration equipment shall comply with the leak repair requirements pursuant to 40 CFR 82.156.
 - g. Owners/operators of appliances normally containing 50 or more pounds of refrigerant shall keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.
16. ACID RAIN PERMIT
- Not applicable

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SECTION IV PLANT SPECIFIC CONDITIONS

This section provides tables that include the emissions standards, emissions limitations, and work practices applicable to each emissions unit located at this facility. The Permittee shall comply with all applicable emissions standards, emissions limitations and work practices included herein.

The tables also include testing, monitoring, record keeping and reporting requirements specific to each emissions unit. In addition to the requirements included here in Section IV, the Permittee is also subject to the general testing, monitoring, record keeping and reporting requirements included in Section III – Plant Wide Conditions of this permit.

Unless otherwise provided in the specific requirements for an emissions unit, the Permittee shall maintain at the facility for at least five (5) years, and shall make available to the Department upon request, all records that the Permittee is required under this section to establish. [Reference: COMAR 26.11.03.06C(5)(g)]

Table IV – 1	
1.0	<u>Emissions Unit Number(s): EU1-1</u> Particulate Matter Emitting Units: Mixing and Compounding Area [6-0104]. Filled Products front end controlled by baghouse & Fugitive Emission.
1.1	<u>Applicable Standards/Limits:</u> A. <u>Control of Visible Emissions</u> COMAR 26.11.06.02C(1) – <u>Visible Emission Standards</u> . “A person may not cause or permit the discharge of emissions from any installation or building, other than water in an uncombined form, which is greater than 20 percent opacity.” COMAR 26.11.06.02A(2) – <u>General Exception</u> . “The visible emissions standards in §C of this regulation do not apply to emissions during start-up and process modifications or adjustments, or occasional cleaning of control equipment, if: (a) The visible emissions are not greater than 40 percent opacity; and (b) The visible emissions do not occur for more than 6 consecutive minutes in any 60 minute period.” B. <u>Control of Particulate Matter Emissions</u> COMAR 26.11.06.03B(1) – <u>Particulate Matter from Confined Sources</u> .

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Table IV – 1	
	“A person may not cause or permit particulate matter to be discharged from any installation constructed on or after January 17, 1972 in excess of 0.05 gr/scfd (115 kg/dscm).”
1.2	<p><u>Testing Requirements:</u></p> <p>A. <u>Control of Visible Emissions</u> None.</p> <p>B. <u>Control of Particulate Matter Emissions.</u> None.</p>
1.3	<p><u>Monitoring Requirements:</u></p> <p>A. <u>Control of Visible Emissions</u> The Permittee shall conduct a monthly 6-minute visual observation of the baghouse exhaust. The visual observation must be conducted while the baghouse is in operation. If no visible emissions are observed in six consecutive monthly observations from the baghouse exhaust, the Permittee may decrease the frequency of visual observations from monthly to quarterly for the baghouse exhaust. If visible emissions are observed during any quarter visual observation, the Permittee must resume the observation of the baghouse exhaust on a monthly basis and maintain that schedule until no visible emissions are observed in six consecutive monthly visual observations. If visible emissions are observed during any observation, the Permittee must conduct an 18-minute test of opacity in accordance with Method 9. The Method 9 test must begin within 24-hour of any observation of visible emissions. [Reference: COMAR 26.11.03.06C]</p> <p>B. <u>Control of Particulate Matter Emissions.</u> The Permittee shall update and maintain the preventive maintenance plan for the baghouse that describes the maintenance activity and time schedule for completing each activity. The Permittee shall perform maintenance activities within the time frames established in the plan and shall maintain a log with records of the dates and description of the maintenance that was performed. [Reference: COMAR 26.11.03.06C].</p>
1.4	<p><u>Record Keeping Requirements:</u></p> <p>A. <u>Control of Visible Emissions</u> The Permittee shall maintain on site a log of the dates and results of</p>

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Table IV – 1	
	<p>visible emissions observations for a period of at least 5 years. [Reference: COMAR 26.11.03.06C]</p> <p>B. <u>Control of Particulate Matter Emissions.</u> The Permittee shall maintain a copy of the preventive maintenance plan and a record of the dates of and description of maintenance activity performed. The Permittee shall maintain records of the baghouse malfunctions and the corrective actions taken to bring into proper operation. [Reference: COMAR 26.11.03.06C].</p>
1.5	<p><u>Reporting Requirements:</u></p> <p>A. <u>Control of Visible Emissions</u> The Permittee shall report incidents of visible emissions in accordance with permit condition 4, Section III, Plant Wide Conditions, "Report of Excess Emissions and Deviations"</p> <p>B. <u>Control of Particulate Matter Emissions.</u> The Permittee shall submit a copy of the preventive maintenance plan, records of maintenance activities and corrective actions taken to the Department upon request. [Reference: COMAR 26.11.03.06C].</p>

"A permit shield shall cover the applicable requirements identified for the emission unit(s) listed in the table above."

Table IV – 2	
2.0	<p><u>Emissions Unit Number(s): EU2-1</u></p> <p><u>Boilers:</u> Two (2) Burnham No.2 fuel oil/propane gas fired boilers each rated at 9.45 million Btu per hour heat input and equipped with low NO_x burners. (Boilers #4 & #5) [4-0223 & 4-0224] One (1) Weil McLain No. 2 fuel oil boiler rated at 4.9 million Btu per hour heat input. (Boiler #1) [4-0156] One (1) Weil McLain No. 2 fuel oil boiler rated at 8.6 million Btu per hour heat input. (Boiler #3) [4-0200]</p> <p>The Permittee applied and was issued a modification to the boilers on February 8, 2008 to burn used oil and waste combustible fuels.</p>
2.1	<p><u>Applicable Standards/Limits:</u></p> <p>A. <u>Control of Visible Emissions</u></p>

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Table IV – 2	
	<p>COMAR 26.11.09.05A(1) - <u>Fuel Burning Equipment</u>. "A person may not cause or permit the discharge of emissions from any fuel burning equipment, other than water in an uncombined form, which is greater than 20 percent opacity."</p> <p>COMAR 26.11.09.05A(3) - <u>Exceptions</u>. "Section A(1) and (2) of this regulation do not apply to emissions during load changing, soot blowing, startup, or adjustments or occasional cleaning of control equipment if:</p> <p>(a) The visible emissions are not greater than 40 percent opacity; and</p> <p>(b) The visible emissions do not occur for more than 6 consecutive minutes in any sixty minute period."</p> <p>B. <u>Control of Sulfur Oxides Emissions</u> COMAR 26.11.09.07A(1)(c). <u>Sulfur Content Limitations for Fuel</u>. "A person may not burn, sell, or make available for sale any fuel with a sulfur content by weight in excess of or which otherwise exceeds the following limitations: Distillate fuel oils, 0.3 percent."</p> <p>C. <u>Operational Limits</u> The boilers shall burn No. 2 fuel oil, used oil or waste combustible fluids only. [Reference: MDE Permit to Construct Nos. 015-0079-4-0223 & 4-0224, 4-0156, & 4-0200 Part C(2) issued February 8, 2008]</p>
2.2	<p><u>Testing Requirements:</u></p> <p>A. <u>Control of Visible Emissions</u> None.</p> <p>B. <u>Control of Sulfur Oxides Emissions.</u> None.</p> <p>C. <u>Operational Limits</u> None.</p>
2.3	<p><u>Monitoring Requirements:</u></p> <p>A. <u>Control of Visible Emissions</u> The Permittee shall properly operate and maintain the boilers in a manner to prevent visible emissions. [Reference: COMAR 26.11.03.06C]</p> <p>B. <u>Control of Sulfur Oxides Emissions.</u> The Permittee shall obtain a certification from the fuel supplier with every</p>

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	<p>shipment indicating that the oil complies with the limitation on the sulfur content of fuel oil. [Reference: COMAR 26.11.03.06C].</p> <p>C. <u>Operational Limits</u> None.</p>
2.4	<p><u>Record Keeping Requirements:</u> NOTE: All records must be maintained for a period of 5 years. [Reference: COMAR 26.11.03.06C(5)(g)].</p> <p>A. <u>Control of Visible Emissions</u> The Permittee shall maintain an operations manual and preventive maintenance plan. The Permittee shall maintain a log of maintenance performed that relates to combustion performance. [Reference: COMAR 26.11.03.06C].</p> <p>B. <u>Control of Sulfur Oxides Emissions.</u> The Permittee shall retain fuel supplier certifications stating that the fuel oil is in compliance with this regulation [Reference: COMAR 26.11.09.07C].</p> <p>C. <u>Operational Limits</u> The Permittee shall retain records of plant-wide fuel usage and hours of operation for the boilers on site. [Reference: MDE Permit to Construct Nos. 015-0079-4-0223 & 4-0224, 4-0156, & 4-0200 Part D(1) issued February 8, 2008]</p>
2.5	<p><u>Reporting Requirements:</u></p> <p>A. <u>Control of Visible Emissions</u> The Permittee shall report incidents of visible emissions in accordance with permit condition 4, Section III, Plant Wide Conditions, "Report of Excess Emissions and Deviations"</p> <p>B. <u>Control of Sulfur Oxides Emissions.</u> The Permittee shall report fuel supplier certifications to the Department upon request [Reference: COMAR 26.11.09.07C]</p> <p>C. <u>Operational Limits</u> The Permittee shall submit records of the quantity and type of fuels burned with the annual emissions certification report. See permit condition 8 of Section III.</p>

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“A permit shield shall cover the applicable requirements identified for the emission unit(s) listed in the table above.”

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3.0	<p><u>Emissions Unit Number(s): EU2-2</u></p> <p><u>Emergency Generator:</u> One (1) Onan 1200 bhp (800 kW) diesel emergency generator. [9-0169]</p>
3.1	<p><u>Applicable Standards/Limits:</u></p> <p>A. <u>Control of Visible Emissions</u> COMAR 26.11.09.05B - <u>Stationary Internal Combustion Engine Powered Equipment</u> “(2) Emissions During Idle Mode. A person may not cause or permit the discharge of emissions from any engine, operating at idle, greater than 10 percent opacity. (3) Emissions During Operating Mode. A person may not cause or permit the discharge of emissions from any engine, operating at other than idle conditions, greater than 40 percent opacity. (4) <u>Exceptions.</u> (a) Section B(2) does not apply for a period of 2 consecutive minutes after a period of idling of 15 consecutive minutes for the purpose of clearing the exhaust system. (b) Section B(2) does not apply to emissions resulting directly from cold engine start-up and warm-up for the following maximum periods: (i) Engines that are idled continuously when not in service: 30 minutes; (ii) All other engines: 15 minutes. (c) Section B(2) and (3) does not apply while maintenance, repair, or testing is being performed by qualified mechanics.”</p> <p>B. <u>Control of Sulfur Oxides Emissions</u> COMAR 26.11.09.07A(1)(c). <u>Sulfur Content Limitations for Fuel.</u> “A person may not burn, sell, or make available for sale any fuel with a sulfur content by weight in excess of or which otherwise exceeds the following limitations: Distillate fuel oils, 0.3 percent.”</p> <p>C. <u>Operational Limit</u> The emergency diesel generator shall be used for emergency use only and shall not operate more than 500 hours a year, unless the Permittee obtains prior written approval from the Department. [Reference; Permit to construct No. 9-0169, Part D(2)]</p>

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3.2	<p><u>Testing Requirements:</u></p> <p>A. <u>Control of Visible Emissions</u> None.</p> <p>B. <u>Control of Sulfur Oxides Emissions.</u> None.</p> <p>C. <u>Operational Limit</u> None.</p>
3.3	<p><u>Monitoring Requirements:</u></p> <p>A. <u>Control of Visible Emissions</u> The Permittee shall properly operate and maintain the emergency generator in a manner to prevent visible emissions. [Reference: COMAR 26.11.03.06C]</p> <p>B. <u>Control of Sulfur Oxides Emissions.</u> The Permittee shall obtain a certification from the fuel supplier with every shipment indicating that the oil complies with the limitation on the sulfur content of fuel oil. [Reference: COMAR 26.11.03.06C].</p> <p>C. <u>Operational Limit</u> The Permittee shall maintain a log for the emergency generator indicating the amounts of fuel oil combusted, the hours of operation, and reason for generator operation (i.e. maintenance or operational testing, power outage, etc.) [Reference: Permit to construct No. 9-0169, Part E(1)]</p>
3.4	<p><u>Record Keeping Requirements:</u></p> <p><u>NOTE:</u> All records must be maintained for a period of 5 years. [Reference: COMAR 26.11.03.06C(5)(g)].</p> <p>A. <u>Control of Visible Emissions</u> The Permittee shall maintain an operations manual and preventive maintenance plan. The Permittee shall maintain a log of maintenance performed that relates to combustion performance. [Reference: COMAR 26.11.03.06C].</p> <p>B. <u>Control of Sulfur Oxides Emissions.</u> The Permittee shall retain fuel supplier certifications stating that the fuel oil is in compliance with this regulation [Reference: COMAR</p>

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	<p>26.11.09.07C].</p> <p>C. <u>Operational Limit</u> The Permittee shall maintain logs on site for at least five (5) years and make available to the Department upon request. [Reference; Permit to construct No. 9-0169, Part E(2)]</p>
3.5	<p><u>Reporting Requirements:</u></p> <p>A. <u>Control of Visible Emissions</u> The Permittee shall report incidents of visible emissions in accordance with permit condition 4, Section III, Plant Wide Conditions, "Report of Excess Emissions and Deviations"</p> <p>B. <u>Control of Sulfur Oxides Emissions.</u> The Permittee shall report fuel supplier certifications to the Department upon request [Reference: COMAR 26.11.09.07C]</p> <p>C. <u>Operational Limit</u> The Permittee shall submit a record of the logs with the annual emissions certification report. See permit condition 8 of Section III.</p>

"A permit shield shall cover the applicable requirements identified for the emission unit(s) listed in the table above."

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4.0	<p><u>Emissions Unit Number(s): EU3-1, EU3-2, EU3-3, EU3-4</u></p> <p>EU 3-1 - Natural FPM Product Area vented through the oxidizer control system EU3-2 - Filled FPM Products Area vented through the oxidizer control system. EU3-3 - FPM Processing Area vented to atmosphere. EU3-4 - Ovens vented to Oxidizer control system.</p>
4.1	<p><u>Applicable Standards/Limits:</u></p> <p>A. <u>Control of Visible Emissions</u> COMAR 26.11.06.02C(1) – <u>Visible Emission Standards.</u> "A person may not cause or permit the discharge of emissions from any installation or building, other than water in an uncombined form, which is greater than</p>

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	<p>20 percent opacity.”</p> <p>COMAR 26.11.06.02A(2) – <u>General Exception</u>. “The visible emissions standards in §C of this regulation do not apply to emissions during start-up and process modifications or adjustments, or occasional cleaning of control equipment, if:</p> <p>(a) The visible emissions are not greater than 40 percent opacity; and</p> <p>(b) The visible emissions do not occur for more than 6 consecutive minutes in any 60 minute period.”</p> <p>B. <u>Control of VOC Emissions</u></p> <p>COMAR 26.11.19.30E – <u>General Requirements for FPM Process Installations</u></p> <p>“(1) A person who owns or operates an FPM process installation that has actual uncontrolled VOC emissions of 50 pounds or more per day shall vent the emissions into a thermal oxidizer system or other control method approved by the Department to destroy or reduce VOC emissions by 85 percent or more, overall.</p> <p>(2) If a thermal oxidizer is installed, the oxidizer combustion chamber shall be:</p> <p>(a) Operated at a minimum combustion chamber temperature of 1400°F or other temperature approved by the Department that is demonstrated to achieve compliance with this regulation;</p> <p>(b) Equipped with a continuous temperature monitor to record the oxidizer temperature; and</p> <p>(c) Equipped with an alarm system that alerts the operator when the oxidizer combustion chamber temperature is less than the approved temperature; and</p> <p>(d) Equipped with an interlock system that prevents operation of the FPM installation unless the approved control system is operating.</p> <p>(3) If a source uses an alternative control method approved by the Department, the alternative control method shall be monitored as required by the Department.</p> <p>(4) Equipment that is installed for the purpose of treating emissions or monitoring shall be operated, maintained, and as applicable, calibrated in accordance with the equipment vendor's specifications.</p> <p>(5) A person who owns or operates an FPM compounding and tape or shape-forming installation shall minimize fugitive emissions of VOC by:</p> <p>(a) Immediately enclosing all wet FPM during storage; and</p> <p>(b) Covering dipping troughs when not in operation.</p> <p>(6) A person who owns or operates an FPM coating installation that has actual uncontrolled VOC emissions of 20 pounds or more per day may not use a coating that has a VOC content exceeding 2.9 pounds per</p>

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	gallon unless the installation is equipped with a control device that meets the requirements in §E(2), (3), and (4) of this regulation.”
4.2	<p><u>Testing Requirements:</u></p> <p>A. <u>Control of Visible Emissions</u> None.</p> <p>B. <u>Control of VOC Emissions</u> COMAR 26.11.19.30F. <u>Demonstration of Compliance</u>. “Compliance with this regulation shall be demonstrated using the applicable VOC test methods specified in COMAR 26.11.01.04C or other test method approved by the Department.” The Permittee shall conduct performance testing of the primary oxidizer in the control system once during the 5-year term of the permit. The Permittee shall submit a test protocol to the Department for approval at least 30 days prior to proposed date of the test. [Reference: COMAR 26.11.03.06C].</p>
4.3	<p><u>Monitoring Requirements:</u></p> <p>A. <u>Control of Visible Emissions</u> The Permittee shall visually inspect the exhaust of the oxidizer control system at least monthly for a 6-minute period when the process lines are in operation and shall record the result of each observation. If no visible emissions are observed in six consecutive monthly observations, the frequency of the visual observation may decrease from monthly to quarterly. If emissions are visible greater than 20 percent opacity from the oxidizer control system, the Permittee shall perform the following unless it can be shown through a Method 9 test, that the visible emissions are zero percent opacity: (a) inspect all process and/or control equipment related to emission point; (b) perform all necessary repairs and/or adjustments to the oxidizers, within 48 hours, so that visible emissions in the exhaust gases are less than 20 percent opacity; and (c) document, in writing, the results of the inspections and the repairs and/or adjustments made to the oxidizers. If visible emissions greater than 20 percent opacity have not been eliminated within 48 hours, the Permittee shall perform a Method 9 observation once daily when the process lines are in operation until the visible emissions have been reduced to less than 20 percent opacity.</p>

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	<p>[Reference: COMAR 26.11.03.06C]</p> <p>B. <u>Control of VOC Emissions</u> For the oxidizer control system, the combustion chamber shall be:</p> <ul style="list-style-type: none"> (a) Operated at a minimum combustion chamber temperature of 1400 °F or other temperature approved by the Department that is demonstrated to achieve compliance with this regulation; (b) Equipped with a continuous temperature monitor to record the oxidizer temperature; and (c) Equipped with an alarm system that alerts the operator when the oxidizer combustion chamber temperature is less than the approved temperature; and (d) Equipped with an interlock system that prevents operation of the FPM installation unless the approved control system is operating.” <p>[Reference: COMAR 26.11.19.30E(2)].</p> <p>The Permittee shall perform checks semi-annually on the thermocouples that monitor the temperatures to the oxidizer control system for accuracy. [Reference: COMAR 26.11.03.06C].</p> <p>See CAM Plan (40 CFR Part 64 – Compliance Assurance Monitoring) in Table 6 for additional Monitoring Requirements.</p>
4.4	<p><u>Record Keeping Requirements:</u></p> <p>A. <u>Control of Visible Emissions</u> The Permittee shall keep records of the results of visual emission observations and document any incidence of visible emissions and corrective action taken by the Permittee. [Reference: COMAR 26.11.03.06C]</p> <p>B. <u>Control of VOC Emissions</u> The following records shall be kept on site for a period of at least five (5) years except for the design data, which shall be retained permanently. The records shall be made available to the Department on request:</p> <ul style="list-style-type: none"> (1) Permanent records, for the life of the equipment, of pertinent design data for the control device including manufacturer specifications and/or vendor guarantees for the control device and catalyst, catalyst requirements, design space velocity, operating limits, volume and configuration of catalyst required; (2) Maintenance records of types and dates of work performed on the oxidizer control system; (3) Records of the combustion chamber temperature, which shall be greater than 1400 °F any time a controlled process line is in operation;

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	<p>and</p> <p>(4) Records of the results of destruction efficiency tests.</p> <p>(5) The Permittee shall keep records of the damper position and corresponding chamber temperature on site for at least five years.</p> <p>(6) The Permittee shall keep records of the semi-annual checks of the thermocouples on site for at least five years. [Reference: COMAR 26.11.03.06C]</p>
4.5	<p><u>Reporting Requirements:</u></p> <p>A. <u>Control of Visible Emissions</u> The Permittee shall report incidents of visible emissions in accordance with permit condition 4, Section III, Plant Wide Conditions, "Report of Excess Emissions and Deviations"</p> <p>B. <u>Control of VOC Emissions</u> The Permittee shall report results of the performance testing to the Department within 45 days after completion of the test. The Permittee shall make the records of the thermo couple checks made available to the Department upon request. [Reference: COMAR 26.11.03.06C]</p>

"A permit shield shall cover the applicable requirements identified for the emission unit(s) listed in the table above."

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5.0	<u>Emissions Unit Number(s): Facility - Wide</u>
5.1	<p><u>Applicable Standards/Limits:</u></p> <p><u>Control of VOC Emissions</u></p> <p>A. COMAR 26.11.19.02I – <u>Good Operating Practices, Equipment Cleanup and VOC Storage</u> <u>"(1) Applicability.</u> The requirements in this section apply to a person who owns or operates an installation that is subject to any requirement in this chapter. <u>(2) Good Operating Practices.</u> (a) A person who is subject to this section shall implement good operating practices to minimize VOC emissions into the atmosphere. (b) Good operating practices shall, at a minimum, include the following: (i) Provisions for training of operators on practices, procedures, and</p>

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	<p>maintenance requirements that are consistent with the equipment manufacturers' recommendations and the source's experience in operating the equipment, with the training to include proper procedures for maintenance of air pollution control equipment;</p> <p>(ii) Maintenance of covers on containers and other vessels that contain VOC and VOC-containing materials when not in use;</p> <p>(iii) As practical, scheduling of operations to minimize color or material changes when applying VOC coatings or other materials by spray gun;</p> <p>(iv) For spray gun applications of coatings, use of high volume low pressure (HVLP) or other high efficiency application methods where practical; and</p> <p>(v) As practical, mixing or blending materials containing VOC in closed containers and taking preventive measures to minimize emissions for products that contain VOC.</p> <p>(c) A person subject to this regulation shall:</p> <p>(i) Establish good operating practices in writing;</p> <p>(ii) Make the written operating practices available to the Department upon request; and</p> <p>(iii) Display the good operating practices so that they are clearly visible to the operator or include them in operator training.</p> <p>(3) <u>Equipment Cleanup.</u></p> <p>(a) A person subject to this section shall take all reasonable precautions to prevent or minimize the discharge of VOC into the atmosphere when cleaning process and coating application equipment, including containers, vessels, tanks, lines, and pumps.</p> <p>(b) Reasonable precautions for equipment cleanup shall, at a minimum, include the following:</p> <p>(i) Storing all wastes and waste materials, including cloth and paper that are contaminated with VOC, in closed containers;</p> <p>(ii) Preparing written standard operating procedures for frequently cleaned equipment, including when practical, provisions for the use of low-VOC or non-VOC materials and procedures to minimize the quantity of VOC materials used;</p> <p>(iii) Using enclosed spray gun cleaning, VOC-recycling systems and other spray gun cleaning methods where practical that reduce or eliminate VOC emissions; and</p> <p>(iv) Using, when practical, detergents, high-pressure water, or other non-VOC cleaning options to clean coating lines, containers, and process equipment.</p> <p>(4) <u>VOC Storage and Transfer.</u></p> <p>(a) A person subject to this section who stores VOCs shall, at a minimum, install conservation vents or other vapor control measures on</p>

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	<p>storage tanks with a capacity of 2,000 gallons or more, to minimize VOC emissions.</p> <p>(b) A person subject to this section shall, at a minimum, utilize vapor balance, vapor control lines, or other vapor control measures when VOCs are transferred from a tank truck into a stationary storage tank with a capacity greater than 10,000 gallons and less than 40,000 gallons that store VOCs or materials containing VOCs, other than gasoline, that have a vapor pressure greater than 1.5 psia.”</p> <p>B. COMAR 26.11.19.16C - <u>Control of VOC Leaks</u> <u>General Requirements.</u> “A person subject to this regulation shall comply with all of the following requirements:</p> <p>(1) Visually inspect all components on the premises for leaks at least once each calendar month.</p> <p>(2) Tag any leak immediately so that the tag is clearly visible. The tag shall be made of a material that will withstand any weather or corrosive conditions to which it may be normally exposed. The tag shall bear an identification number, the date the leak was discovered, and the name of the person who discovered the leak. The tag shall remain in place until the leak has been repaired.</p> <p>(3) Take immediate action to repair all observed VOC leaks that can be repaired within 48 hours.</p> <p>(4) Repair all other leaking components not later than 15 days after the leak is discovered. If a replacement part is needed, the part shall be ordered within 3 days after discovery of the leak, and the leak shall be repaired within 48 hours after receiving the part.</p> <p>(5) Maintain a supply of components or component parts that are recognized by the source to wear or corrode, or that otherwise need to be routinely replaced, such as seals, gaskets, packing, and pipefittings.</p> <p>(6) Maintain a log that includes the name of the person conducting the inspection and the date on which leak inspections are made, the findings of the inspection, and a list of leaks by tag identification number. The log shall be made available to the Department upon request. Leak records shall be maintained for a period of not less than 2 years from the date of their occurrence.”</p> <p>COMAR 26.11.19.16D. <u>Exceptions.</u> “Components that cannot be repaired as required in this regulation because they are inaccessible, or that cannot be repaired during operation of the source, shall be identified in the log and included within the source's maintenance schedule for repair during the next source shutdown.”</p>
5.2	<u>Testing Requirements:</u>

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	<p><u>Control of VOC Emissions</u></p> <p>A. <u>Good Operating Practices, Equipment Cleanup and VOC Storage</u> None.</p> <p>B. <u>Control of VOC Leaks.</u> None.</p>
5.3	<p><u>Monitoring Requirements:</u></p> <p><u>Control of VOC Emissions</u></p> <p>A. <u>Good Operating Practices, Equipment Cleanup and VOC Storage</u> The Permittee shall conduct facility-wide inspections at least once per calendar month to determine the compliance status of facility operations with regard to implementation of “good operating practices” designed to minimize emissions of VOC. [Reference: COMAR 26.11.03.06C]</p> <p>B. <u>Control of VOC Leaks.</u> The Permittee shall:</p> <ol style="list-style-type: none"> (1) Visually inspect all components (process equipment, storage tanks, pumps, compressors, valves, flanges, pipeline fittings, pressure relief valves) at the facility for VOC leaks at least once each calendar month; (2) Tag any VOC leak immediately with I.D. Number, the date VOC leak was discovered, and the name of the person who discovered the VOC leak. The tag is to remain in place until the VOC leak is repaired; (3) Take immediate action to repair/control all observed VOC leaks that can be repaired within 48 hours; (4) Repair all other VOC leaking components not later than 15 days after the VOC leak is discovered in accordance with COMAR 26.11.19.16C(4); (5) If a replacement part is needed, it shall be ordered within 3 days after discovery of the VOC leak and the leak shall be repaired within 48 hours after receiving the part; (6) Maintain a supply of components or component parts that are recognized by the source to wear or corrode, or that otherwise need to be routinely replaced; and (7) Identify in a log components that cannot be repaired as required by this regulation because they are inaccessible, or that cannot be repaired during operation of the source, and include them within the source’s maintenance schedule for repair during the next source

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	shutdown. [Reference: COMAR 26.11.19.16C and D]
5.4	<p><u>Record Keeping Requirements:</u></p> <p><u>Control of VOC Emissions</u></p> <p>A. <u>Good Operating Practices, Equipment Cleanup and VOC Storage</u> The Permittee shall maintain:</p> <ol style="list-style-type: none"> 1) Written descriptions of all “good operating practices” designed to minimize emissions of VOC from facility-wide operations. [Reference: COMAR 26.11.19.02I] 2) Records of all inspections conducted to determine the facility’s compliance status with regard to implementation of “good operating practices” designed to minimize emissions of VOC from facility-wide operations. The records shall include for each inspection the name of the inspector, the date and time of the inspection, and an account of the findings. [Reference: COMAR 26.11.03.06C] <p>B. <u>Control of VOC Leaks.</u> The Permittee shall:</p> <ol style="list-style-type: none"> 1) Maintain a log that includes the name of the person conducting the inspection, the date on which VOC leak inspection was made, the findings of the inspection, a list of VOC leaks by tag identification number, the date the part was ordered, and the date the VOC leak was repaired; and 2) Make the log available to the Department upon request and shall be maintained for a period of not less than two years from the date of the VOC leaks’ occurrence. [Reference: COMAR 26.11.19.16C(6)]
5.5	<p><u>Reporting Requirements:</u></p> <p><u>Control of VOC Emissions</u></p> <p>A. <u>Good Operating Practices, Equipment Cleanup and VOC Storage</u> Good operating practices information as required by COMAR 26.11.19.02I shall be made available to the Department upon request</p> <p>B. <u>Control of VOC Leaks.</u> VOC Leak inspection logs as required by COMAR 26.11.19.16 shall be made available to the Department upon request.</p>

“A permit shield shall cover the applicable requirements identified for the emission unit(s) listed in the table above.”

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Table IV-6			
COMPLIANCE ASSURANCE MONITORING REQUIREMENTS – PART 64			
Oxidizer Control System (OCS) consisting of the following: Regenerative Thermal Oxidizer #1 (SARA, CH62581); Regenerative Thermal Oxidizer #2 (TEC, CH2369); Regenerative Thermal Oxidizer #3 (WILLIE, CH60535)			
Applicable Requirement	VOC:		
I. Indicator	Combustion Zone Temperature	Visible Emissions	Stack Testing
II. Measurement Approach	The combustion zone temperature is measured using thermocouples that are located within the combustion zone.	Periodic observations of the OCS stack can indicate if visible emissions are present.	VOC Emissions are sampled using EPA Reference Method 25A, a continuous extractive sample (40 CFR 60 Appendix A)
III. Indicator Range	An excursion occurs when the combustion zone temperature drops below 1400 °F, while processes are venting to the oxidizer. Audible and visual alarms will alert oxidizer operators to a temperature dropping below 1400 °F, and the oxidizer will automatically remove the permissive to operate from all users prior to the temperature reaching 1400 °F. An excursion will trigger an investigation and corrective action,	Quarterly observations are performed for a 6-minute period, while process lines are in operation and being controlled by the OCS.	Stack Test must show a destruction efficiency of 85 percent or greater.

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	and if lasting longer than one hour, a reporting requirement.		
IV Performance Criteria			
A. Data Representativeness	The combustion zone temperatures are measured using thermocouples located within the combustion zone. The minimum accuracy of the thermocouple is <u>+2 degrees F.</u>	A Method 9 visible emissions observation is performed.	See EPA Reference Method 25A.
B. Verification of Operational Status	N/A	N/A	See EPA Reference Method 25A
C. QA/QC Practices and Criteria	Annual replacement of the combustion zone thermocouples	N/A	See EPA Reference Method 25A.
D. Monitoring Frequency	The combustion zone temperature is monitored	Quarterly observations	The stack test is performed within 180 days of startup of unit.
E. Data Collection Procedures	Temperatures are recorded once every minute to a strip chart. The chart recorder is electronically backed up on the data logger. Once each year data is saved to a disk or CD.	The 6-minute observation shall be documented and maintained for a period of at least 5 years.	See EPA Reference Method 25A, the results are reported to the permitted authority.
F. Averaging Period	6-minute average	N/A	N/A

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SECTION V INSIGNIFICANT ACTIVITIES

This section provides a list of insignificant emissions units that were reported in the Title V permit application. The applicable Clean Air Act requirements, if any, are listed below the insignificant activity.

- (1) No. 12 Fuel burning equipment using gaseous fuels or no. 1 or no. 2 fuel oil, and having a heat input less than 1,000,000 Btu (1.06 gigajoules) per hour;

[For Areas I, II, V, and VI]

The fuel burning units are subject to the following requirements: COMAR 26.11.09.05A(1), which establishes that the Permittee may not cause or permit the discharge of emissions from any fuel burning equipment, other than water in an uncombined form, which is greater than 20 percent opacity.

Exceptions: COMAR 26.11.09.05A(2) does not apply to emissions during load changing, soot blowing, start-up, or adjustments or occasional cleaning of control equipment if:

- (a) The visible emissions are not greater than 40 percent opacity; and
- (b) The visible emissions do not occur for more than 6 consecutive minutes in any sixty-minute period.

[For Distillate Fuel Oil]

COMAR 26.11.09.07A(1)(c), which establishes that the Permittee may not burn, sell, or make available for sale any distillate fuel with sulfur content by weight in excess of 0.3 percent.

- (2) No. 2 Stationary internal combustion engines with an output less than 500 brake horsepower (373 kilowatts) and which are not used to generate electricity for sale or for peak or load shaving;

The affected units are subject to the following requirements:

- (A) COMAR 26.11.09.05B(2), Emissions During Idle Mode: The Permittee may not cause or permit the discharge of emissions from any engine, operating at idle, greater than 10 percent opacity.
- (B) COMAR 26.11.09.05B(3), Emissions During Operating Mode: The Permittee may not cause or permit the

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discharge of emissions from any engine, operating at other than idle conditions, greater than 40 percent opacity.

(C) Exceptions:

- (i) COMAR 26.11.09.05B(2) does not apply for a period of 2 consecutive minutes after a period of idling of 15 consecutive minutes for the purpose of clearing the exhaust system.
- (ii) COMAR 26.11.09.05B(2) does not apply to emissions resulting directly from cold engine start-up and warm-up for the following maximum periods:
 - (a) Engines that are idled continuously when not in service: 30 minutes
 - (b) all other engines: 15 minutes.
- (iii) COMAR 26.11.09.05B(2) & (3) do not apply while maintenance, repair or testing is being performed by qualified mechanics.

(3) ✓ Space heaters utilizing direct heat transfer and used solely for comfort heat;

(4) No. 15 Unheated VOC dispensing containers or unheated VOC rinsing containers of 60 gallons (227 liters) capacity or less;

The affected units including EU3-5 are subject to COMAR 26.11.19.09D, which requires that the Permittee control emissions of volatile organic compounds (VOC) from cold degreasing operations by meeting the following requirements:

- (a) COMAR 26.11.19.09D(2)(b), which establishes that the Permittee shall not use any VOC degreasing material that exceeds a vapor pressure of 1 mm Hg at 20 ° C;
- (b) COMAR 26.11.19.09D(3)(a—d), which requires that the Permittee implement good operating practices designed to minimize spills and evaporation of VOC degreasing material. These practices, which shall be established in writing and displayed such that they are clearly visible to operators, shall include covers (including water covers), lids, or other methods of minimizing evaporative losses, and reducing the time and frequency during which parts are cleaned;
- (c) COMAR 26.11.19.09D(4), which prohibits the use of any halogenated VOC for cold degreasing.

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The Permittee shall maintain on site for at least five (5) years, and shall make available to the Department upon request, the following records of operating data:

- (a) Annual records of the total VOC degreasing materials used; and
 - (b) Written descriptions of good operating practices designed to minimize spills and evaporation of VOC degreasing materials.
- (5) Containers, reservoirs, or tanks used exclusively for:
- (a) ✓ Storage of butane, propane, or liquefied petroleum, or natural gas;
 - (b) No. 30 Storage of lubricating oils;
 - (c) No. 7 Storage of Numbers 1, 2, 4, 5, and 6 fuel oil and aviation jet engine fuel;
 - (d) No. >100 The storage of VOC normally used as solvents, diluents, thinners, inks, colorants, paints, lacquers, enamels, varnishes, liquid resins, or other surface coatings and having individual capacities of 2,000 gallons (7.6 cubic meters) or less;
- (6) ✓ Gaseous fuel-fired or electrically heated furnaces for heat treating glass or metals, the use of which does not involve molten materials;
- (7) ✓ Charbroilers and pit barbecues as defined in COMAR 26.11.18.01 with a total cooking area of 5 square feet (0.46 square meter) or less;
- (8) ✓ First aid and emergency medical care provided at the facility, including related activities such as sterilization and medicine preparation used in support of a manufacturing or production process;
- (9) ✓ Certain recreational equipment and activities, such as fireplaces, barbecue pits and cookers, fireworks displays, and kerosene fuel use;

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- (10) ☒ Potable water treatment equipment, not including air stripping equipment;
- (11) ☒ Comfort air conditioning subject to requirements of Title VI of the Clean Air Act;
- (12) ☒ Laboratory fume hoods and vents;

For the following, attach additional pages as necessary:

- (13) any other emissions unit, not listed in this section, with a potential to emit less than the "de minimus" levels listed in COMAR 26.11.02.10X (list and describe units):

Installation Date	General Category	CH nos.	2nd CH nos.	Permit#	Title V EU#	EMIT	Control Device	Fuel	CH Emission Point
Jun-89	Drying	126	2555	6-0041	Insig	-	atmos	E	
Nov-95	Drying	2328		6-0041	Insig	VOC	atmos	E	
Jan-02	Forming	62347		6-0104	Insig	PM	fugitive	E	137
Nov-02	Forming	62924		6-0104	Insig	PM	fugitive	E	135
Jun-89	Forming	447		6-0041	Insig	VOC	fugitive	E	
Jun-89	Forming	1304	241	6-0041	Insig	VOC	fugitive	E	
Jun-89	Forming	1322		6-0041	Insig	VOC	fugitive	E	
Jun-89	Forming	1323		6-0041	Insig	VOC	fugitive	E	
Jun-92	Forming	1949		6-0041	Insig	VOC	fugitive	E	
Dec-07	Forming	1991534		6-0275	Insig	VOC	fugitive	E	
pre-1989	Forming	976		7-0045	Insig	VOC	fugitive	E	26
pre-1989	Forming	1266		7-0045	Insig	VOC	fugitive	E	26
pre-1990	Forming	2052		6-0041	Insig	VOC	fugitive	E	91
pre-1990	Forming	2101		6-0041	Insig	VOC	fugitive	E	129
pre-1990	Forming	1376		7-0045	Insig	VOC	fugitive	E	199
pre-1990	Forming	2014		7-0045	Insig	VOC	fugitive	E	
pre-1990	Forming	2069		7-0045	Insig	VOC	fugitive	E	28
pre-1990	Forming	2371		7-0045	Insig	VOC	fugitive	E	139
Jan-85	Misc	5800		6-0162	Insig	VOC	atmos	E	63
pre-1990	Misc	0		6-0104	Insig	PM	atmos	E	
	Misc	2149	2037 & others	7-0045	Insig	VOC	fugitive	E	
Mar-03	Shaping	6044		7-0045	Insig	COMB	atmos	P	
Oct-04	Shaping	0		7-0045	Insig	VOC	atmos	E	6
pre-1989	Shaping	853		7-0045	Insig	VOC	atmos	E	5
pre-1989	Shaping	982		7-0045	Insig	VOC	atmos	E	18
pre-1989	Shaping	1425		7-0045	Insig	VOC	atmos	E	98
pre-1989	Shaping	1761		7-0045	Insig	VOC	atmos	E	35, 36

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Installation Date	General Category	CH nos.	2nd CH nos.	Permit#	Title V EU#	EMIT	Control Device	Fuel	CH Emission Point
Mar-05	Shaping	2180		7-0045	Insig	VOC	fugitive	E	
pre-1990	Shaping	1693		6-0041	Insig	VOC	fugitive	E	116
	Shaping	60265		6-0041	Insig	-	atmos	P	175
Jul-02	Shaping	45159		6-0104	Insig	PM	atmos	E	128
pre-1989	Shaping	242		7-0045	Insig	VOC	fugitive	E	
pre-1989	Shaping	244		7-0045	Insig	VOC	fugitive	E	
	Shaping	2310		7-0045	Insig	VOC	fugitive	E	
pre-1990	Shaping	2344		7-0045	Insig	VOC	atmos	E	10 ,89
2003	Shaping	61670		7-0045	Insig	VOC	atmos	E	15

(14) any other emissions unit at the facility which is not subject to an applicable requirement of the Clean Air Act (list and describe):

Installation Date	General Category	CH nos.	2nd CH nos.	Permit#	Title V EU#	EMIT	Control Device	Fuel	CH Emission Point
Dec-07	Conditioning	0		7-0045	Insig	-	atmos	E	
Mar-07	Conditioning	0		7-0045	Insig	-	atmos	E	
pre-1990	Conditioning	2166		7-0045	Insig	-	atmos	E	67
pre-1990	Conditioning	2413		7-0045	Insig	-	atmos	E	61
pre-1990	Conditioning	2443		7-0045	Insig	-	atmos	E	120
pre-1990	Conditioning	2444		7-0045	Insig	-	atmos	E	118
pre-1990	Conditioning	2445		7-0045	Insig	-	atmos	E	119
Aug-82	Drying	963		6-0130	Insig	VOC	atmos	E	141
pre-1990	Drying	2211		6-0130	Insig	VOC	atmos	E	23
pre-1990	Drying	2545		6-0130	Insig	VOC	atmos	E	140
pre-1990	Misc	0		7-0045	Insig	VOC	atmos	E	8
	Misc	5084		n/a	3-5	VOC	fugitive	-	
Jan-07	Misc	0		n/a	Insig	COMB	atmos	P	
Jan-07	Misc	0		n/a	Insig	COMB	atmos	P	
Jan-07	Misc	0		n/a	Insig	COMB	atmos	P	
Jan-07	Misc	0		n/a	Insig	COMB	atmos	P	
Jan-99	Misc	0		n/a	Insig	COMB	atmos	P	
Jan-85	Misc	0		n/a	Insig	PM	atmos	E	62
May-07	Shaping	0		7-0045	Insig	-	atmos	E	
2002	Shaping	2411		7-0045	Insig	VOC	atmos	E	
3/6/2007	StackOnly	0		n/a	exempt	VOC	fugitive	E	200
Aug-07	Tank	BAYCH-600 TK1		n/a	4-1	VOC	atmos	-	
Aug-07	Tank	BAYCH-600 TK2		n/a	4-1	VOC	atmos	-	
	Tank	FP Mezz #23		n/a	4-1	VOC	atmos	-	
pre-1990	Tank	TK1709-01		n/a	4-1	VOC	atmos	-	404
pre-1990	Tank	TK1709-02		n/a	4-1	VOC	atmos	-	405
pre-1990	Tank	TK2453-03		n/a	4-1	VOC	atmos	-	406
pre-1991	Tank	TK2542-04		n/a	4-1	VOC	atmos	-	407
pre-1993	Tank	TK2542-05		n/a	4-1	VOC	atmos	-	408
pre-1992	Tank	TK2542-06		n/a	4-1	VOC	atmos	-	409
pre-1990	Tank	TKno-name		n/a	4-1	VOC	atmos	-	410

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SECTION VI STATE-ONLY ENFORCEABLE CONDITIONS

The Permittee is subject to the following State-only enforceable requirements:

1. Applicable Regulations:

- (a) COMAR 26.11.06.08 - Nuisance. "An installation or premises may not be operated or maintained in such a manner that a nuisance or air pollution is created. Nothing in this regulation relating to the control of emissions may in any manner be construed as authorizing or permitting the creation of, or maintenance of, nuisance or air pollution."
- (b) COMAR 26.11.06.09 – Odors. "A person may not cause or permit the discharge into the atmosphere of gases, vapors, or odors beyond the property line in such a manner that nuisance or air pollution is created."
- (c) COMAR 26.11.09.10 - Requirements to Burn Used Oil and Waste Combustible Fluid as Fuel.
 - A. General Requirements.
 - "(1) A person who proposes to burn used oil or waste combustible fluid in an installation shall submit the following information to the Department:
 - (a) A description of, and the location of, each fuel-burning equipment or other installation in which the used oil or WCF is to be burned and the rated heat input capacity of each;
 - (b) The type and amount of fuel currently being used in each installation and the gallons of used oil or WCF expected to be burned annually;
 - (c) The maximum percentage of used oil or WCF to be burned as fuel in each installation; and
 - (d) An analysis by an independent laboratory of a representative sample of the used oil or WCF, which shall include the concentration of each of the materials listed in §B of this regulation, the PCB concentration, and the flash point.
 - (2) A person may burn on-specification used oil in any installation upon submitting the information required in §A(1) of this regulation.
 - (3) A person who is burning used oil or WCF under a current approval issued by the Department may continue to burn the approved material if:

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(a) The person registers the equipment that is burning the used oil or WCF by submitting the information required in §A(1) of this regulation; and

(b) The used oil or WCF is being burned in an authorized installation.

(4) A person who proposes to burn off-specification used oil or WCF in an installation other than a space heater, as provided in 40 CFR §279.23, is subject to the permit or registration requirements in COMAR 26.11.02.

(5) A person who receives a permit or registration to burn used oil or WCF shall burn only the materials authorized in the permit or registration.

(6) A person may burn off-specification used oil and waste combustible fluid only in those installations listed at 40 CFR §279.12(c).

B. Specifications for Used Oil.

(1) Except as provided in §B(2) of this regulation, used oil specifications are as follows:

Material	Allowable Level
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(a) Lead	100 ppm
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(b) Total halogens	4,000 ppm
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(c) Arsenic	5 ppm
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(d) Cadmium	2 ppm
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(e) Chromium	10 ppm
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(f) Flash point	100° F minimum
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(2) For used oil that does not satisfy the rebuttable presumption for halogens at 40 CFR 279.10(b)(1)(ii) and 279.63, the maximum allowable level for halogens may not exceed 1,000 ppm.

C. Requirements for Burning Used Oil or WCF Containing PCB.

(1) Used oil or WCF containing quantifiable levels of PCB (2ppm) or greater but less than 50 ppm may be burned only in those installations listed at 40 CFR §279.12(c) or 40 CFR 761.

(2) Used oil or WCF containing PCB with a concentration of 50 ppm or greater is hazardous waste."

(d) COMAR 26.11.15.05 - Control Technology Requirements.

"A. New or Reconstructed Installations. A person may not construct, reconstruct, operate, or cause to be constructed, reconstructed, or operated, any new installation or source that will discharge a toxic air pollutant to the atmosphere without installing and operating T-BACT."

(e) COMAR 26.11.15.06 - Ambient Impact Requirement.

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A. Requirements for New Installations, Sources, or Premises.

(1) Except as provided in §A(2) of this regulation, a person may not construct, modify, or operate, or cause to be constructed, modified, or operated, any new installation or source without first demonstrating to the satisfaction of the Department using procedures established in this chapter that total allowable emissions from the premises of each toxic air pollutant discharged by the new installation or source will not unreasonably endanger human health.

(2) If a new installation or source will discharge a TAP that is not listed in COMAR 26.11.16.07 and will be part of an existing premises, then emissions of that TAP from existing sources or existing installations on the premises may be omitted from a screening analysis unless the TAP is added to COMAR 26.11.16.07.

2. Record Keeping and Reporting:

The Permittee shall submit to the Department, by April 1 of each year during the term of this permit, a written certification of the results of an analysis of emissions of toxic air pollutants from the Permittee's facility during the previous calendar year. The analysis shall include either:

- (a) a statement that previously submitted compliance demonstrations for emissions of toxic air pollutants remain valid; or
- (b) a revised compliance demonstration, developed in accordance with requirements included under COMAR 26.11.15 & 16, that accounts for changes in operations, analytical methods, emissions determinations, or other factors that have invalidated previous demonstrations.